HST Fire

ISO 9001 : 2008

# Fire Alarm Systems
# Cataloge

INTERTEK ETL LISTED c US

CCC

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ENAC

# Vision

We target to be the first security integration company world wide

# About Us

**HST®** (High Security Technology)

**With an excellent reputation based on more than 20 years' experience in the field of security technology,**

**HST®**

**Is one of the most reliable and technologically advanced leading Manufacturer of a vast range of security products especially in production of FIRE ALARM SYSTEMS.**

**We provide High Quality end to end solutions for our clients from SMB up to Large Enterprise.**

**Our High Knowledge in Fire Alarm Detection Systems, Which allowed our factories specialize in OEM/ODM complete product range of Fire Alarm Systems include:**

**1- Conventional Systems**
**2- Addressable Systems**
**3- And Stand Alone Systems**

**With a multiple range of default sized & special Mini Detectors.**

HST Fire

**QAS ISO**
**Certificates**
**Cert. No.:** EG.0038.1

MANAGEMENT SYSTEMS CERTIFICATION

InterConformity
Assessment & Certification Company

# CERTIFICATE

This is to confirm that the Quality Management System of

## HIGH LOGIC SECURITY TECHNOLOGY ( HST )

Head office:4 Abo El Fawares street, Taeran street, El hay El Sabaa, Naser City, Cairo, Egypt
Factory Site: Block 18, Area 22 industrial Zone 2 East Borg El Arab, Alexandria, Egypt

has been adequately implemented and maintained in accordance with the standard

# ISO 9001 : 2008

for the following scope:

Manufacture for Fire Alarm Systems, Fire Fighting Systems, Automation & Security Systems, CCTV and LED lights.

| | |
|---|---|
| Registration Number: | EG.0038.1 |
| Date of certificate issue: | 27.08.2013 |
| Initial certification date: | 27.08.2016 |
| Date of certificate expiration: | 27.08.2016 |

Managing Director

InterConformity GmbH, Rupert-Mayer-Str. 44, 81379 München, Germany - European Union

JAS-ANZ

IAF MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT

F202/2


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HST Fire

**QAS ISO**
**Certificates**
**Cert. No.:** EG.0038.1

MANAGEMENT SYSTEMS CERTIFICATION

InterConformity
Assessment & Certification Company

# CERTIFICATE

This is to confirm that the Quality Management System of

## HLOGIC SECURITY TECHNOLOGY SHENZHEN CO., LTD. ( HST )

4F, Building B1, XinHaoSheng High-Tech Park, YongHe Road, FuYong Town, Baoan District, Shenzhen, China

has been adequately implemented and maintained in accordance with the standard

# ISO 9001 : 2008

for the following scope:

Manufacture for Fire Alarm Systems, Fire Fighting Systems, Automation & Security Systems , CCTV and LED lights

| | |
|---|---|
| Registration Number: | EG.0052.1 |
| Date of certificate issue: | 02.10.2013 |
| Initial certification date: | 02.10.2013 |
| Date of certificate expiration: | 02.10.2016 |

Managing Director

InterConformity GmbH, Rupert-Mayer-Str. 44, 81379 München, Germany - European Union

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# Quality Summit

## Certificates

**Cert. No.:** G-02-116-QSG



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HST Fire

# Quality Summit

## Certificates

**Cert. No.:** G-02-116-QSG

B I D  B u s i n e s s  I n i t i a t i v e  D i r e c t i o n s

## Principles of the QC100 Total Quality Management Model

# Commitment of H. LOGIC to Quality

Our company accepts quality as a factor of development to become more competitive.

H. LOGIC is committed to publicizing this Quality Culture with employees, suppliers, clients and the community, supported by the QC100 Total Quality Management Model, the principles of which are the following:

1. Quality is a consequence of valuing customer satisfaction and obtaining positive business results.
2. Meet the quality levels established in the company in accordance with the QC100 Points of Quality.
3. Encourage participation and teamwork for decision making.
4. Satisfy the needs of our clients and meet their expectations.
5. Provide human resources, both technical and economic, to achieve continuous improvement and respect for the environment.
6. Manage human resources in our company to achieve the maximum potential.
7. Make employees aware of the importance of concentration on the most profitable areas of activity, to achieve the best business results.

The achievement of these seven principles by H. LOGIC will foster improvement for clients, employees, suppliers and all of the other persons who make up the company.

New York, June 21, 2004

General Manager
H. LOGIC

G-02-116-QSG

The criteria expressed in this document is the ideological support of the International Quality Summit Award, administered by B.I.D. Business Initiative Directions and endorsed by the QC100 Total Quality Management Model.
General Yagüe, 11 - 28020 Madrid-Spain - T. +34 91 597 33 69 - www.bid-qualitysummit.com


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HST Fire

# TUV ISO

## Certificates

**Cert. No.:** 01012354

# CERTIFICATE

TÜV AUSTRIA

**Management System as per**
**EN ISO 9001 : 2008**

In accordance with TÜV AUSTRIA HELLAS procedures, it is hereby certified that

**H-LOGIC**
**Behind 14 Mahmoud Sedkey Street, El-Ekbal**
**Alexandria, Egypt**

Applies a Quality Management System in line with the above Standard for the following Scope

**SALES FOR ELECTRONIC FIRE ALARMS AND SECURITY SYSTEM EQUIPMENTS AND DESIGN AND DEVELOPMENT THE RELATED SYSTEMS SOFTWARE.**

Certificate Registration No.: **01012354**

Initial certification: 2010-09-20
Reissue Date: 2013-09-20
Certificate Period: 3 Years

Certification Body
at TÜV AUSTRIA HELLAS

Athens, 2012-09-20

This certification was conducted in accordance with TÜV AUSTRIA HELLAS auditing and certification procedures and is subject to regular surveillance audits.

TÜV AUSTRIA HELLAS
429, Mesogeion Ave.
GR-153 43 Athens, Greece
www.tuvaustriahellas.gr

IAF ESYD
Ms Certification
No of Certificate 236

TÜV AUSTRIA GROUP

CERTIFICATE | ZERTIFICAT | ΠΙΣΤΟΠΟΙΗΤΙΚΟ | SERTIFICA | شهادة | 证书 | CERTIFICAT


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# Index

## Approval



## Conventional



## Addressable




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# Applus EN Approval

## Approvals

**Cert. No.:** 0370-CPD-1209

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ENAC
CERTIFICACIÓN

# CERTIFICATE

Nr. 0370-CPD-1209

Notified body 0370

## EC-CERTIFICATE OF CONFORMITY

In compliance with the Directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to the construction products (Construction Products Directive - CPD), amended by the Directive 93/68/EEC of the Council of European Communities of 22 July 1993, it has been stated that the construction product:

FIRE DETECTION AND FIRE ALARM SYSTEMS. PART 7: SMOKE DETECTORS. POINT DETECTORS USING SCATTERED LIGHT, TRANSMITTED LIGHT OR IONIZATION: **SMOKE DETECTORS. POINT DETECTORS USING SCATTERED LIGHT.**

- **HD101B:** CONVENTIONAL PHOTOELECTRIC SMOKE DETECTOR.

Placed on the market by:

**HLOGIC SECURITY TECHNOLOGY CO., LTD**
**4F, BUILDING B1, XINHAOSHENG HIGH-TECH PARK, YONGHE ROAD,**
**FUYONG TOWN, BAOAN DISTRICT, SHENZHEN, CHINA**

And produced in the factory

**4F, BUILDING B1, XINHAOSHENG HIGH-TECH PARK, YONGHE ROAD,**
**FUYONG TOWN, BAOAN DISTRICT, SHENZHEN, CHINA**

Is submitted by the manufacturer to a factory production control and to the further testing of samples taken at the factory in accordance with a prescribed test plan and that the notified body -LGAI TECHNOLOGICAL CENTER S.A. - has performed the initial type-testing for the relevant characteristics of the product, the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control and an audit-testing of samples taken at the factory, on the market or at the construction site.
This certificate attests that all provisions concerning the attestation of conformity and the performances described in the Annex ZA of the standard were applied and that the product fulfils all the prescribed requirements.

**EN 54-7:2000, EN 54-7:2000/A1:2002, EN 54-7:2000/A2:2006**

This certificate was first issued on 07th October 2011 and remains valid as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly. It is confirmed on 03rd August 2012.

Bellaterra, 03rd August 2012

Jordi Brufau Redondo
General Manager

Xavier Ruiz Peña
Product Conformity B.U., Manager

This document is not valid without its corresponding technical annex, whose number coincides with the number of certificate.

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# Applus EN Approval

## Approvals

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Notified body Nº 0370

ENAC CERTIFICACIÓN Nº OC-P/009

# CERTIFICATE

Nr. 0370-CPD-1217

## EC-CERTIFICATE OF CONFORMITY

In compliance with the Directive 89/106/EEC of the Council of European Communities of 21 December 1988 on the approximation of laws, regulations and administrative provisions of the Member States relating to the construction products (Construction Products Directive - CPD), amended by the Directive 93/68/EEC of the Council of European Communities of 22 July 1993, it has been stated that the construction product:

FIRE DETECTION AND FIRE ALARM SYSTEMS. PART 7: SMOKE DETECTORS. POINT DETECTORS USING SCATTERED LIGHT, TRANSMITTED LIGHT OR IONIZATION: **SMOKE DETECTORS. POINT DETECTORS USING SCATTERED LIGHT.**

- **HD201B:** ADDRESSABLE PHOTOELECTRIC SMOKE DETECTOR.

Placed on the market by:

**HLOGIC SECURITY TECHNOLOGY CO., LTD**
**4F, BUILDING B1, XINHAOSHENG HIGH-TECH PARK, YONGHE ROAD,**
**FUYONG TOWN, BAOAN DISTRICT, SHENZHEN, CHINA**

And produced in the factory:

**4F, BUILDING B1, XINHAOSHENG HIGH-TECH PARK, YONGHE ROAD,**
**FUYONG TOWN, BAOAN DISTRICT, SHENZHEN, CHINA**

Is submitted by the manufacturer to a factory production control and to the further testing of samples taken at the factory in accordance with a prescribed test plan and that the notified body -LGAI TECHNOLOGICAL CENTER S.A. - has performed the initial type-testing for the relevant characteristics of the product, the initial inspection of the factory and of the factory production control and performs the continuous surveillance, assessment and approval of the factory production control and an audit-testing of samples taken at the factory, on the market or at the construction site.

This certificate attests that all provisions concerning the attestation of conformity and the performances described in the Annex ZA of the standard were applied and that the product fulfils all the prescribed requirements.

**EN 54-7:2000, EN 54-7:2000/A1:2002, EN 54-7:2000/A2:2006**

This certificate was first issued on 28th October 2011 and remains valid as long as the conditions laid down in the harmonised technical specification in reference or the manufacturing conditions in the factory or the FPC itself are not modified significantly. It is confirmed on 03rd August 2012

Bellaterra, 03rd August 2012

Jordi Brufau Redondo
General Manager

Xavier Ruiz Peña
Product Conformity B.U., Manager

This document is not valid without its corresponding technical annex, whose number coincides with the number of certificate.

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# UKAS Testing

## Approvals

**Cert. No.:** TE274351


Testing of the HST HD101 conventional optical smoke detector to Clause 5.12 Sulphur dioxide ($SO_2$) corrosion (endurance) taken from EN 54-7:2000[1].

Prepared for:
LPCB
Bucknalls Lane
Garaston
Watford
WD25 9XX

05 October 2011
Test report number
TE274351

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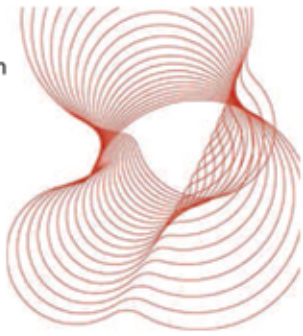
Testing of the HST HD101 conventional smoke detector to Clause 5.12 Sulph dioxide ($SO_2$) corrosion (endurance) taken from EN 54-7:2000[1].



## Prepared on behalf of BRE Global by

Name B. L. Murtagh

Position Manager – Fire Detection

Signature

## Authorised on behalf of BRE Global by

Name A. J. Dodkin

Position International Business Development Manager

Date 05 October 2011

Signature

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BRE Global is not UKAS accredited to make opinions and interpretation. Any opinions and interpretations included as part of this report are clearly marked as such.

UKAS TESTING
0578





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# ETL Listing (UL-864)

## Approvals

**Cert. No.:** N/A



Intertek

<- Back

Product Description

Title: CONTROL UNITS FOR FIRE-PROTECTIVE SIGNALING SYSTEMS

Company: HLOGIC SECURITY TECHNOLOGY SHENZHEN CO., LTD. - FuYong Town, Shenzhen CHINA

Product Information: Trade Name(s): HST.

Fire Alarm Control Panel, Model Nos. HST HP201, HST HP1010.

Evaluated to the following: A representative sample of the listed devices have been tested, investigated and found to comply with the requirements of the Standard(s) for Control Unit for Fire-Protective Signaling Systems (UL-864) and are identified with the ETL Listed Mark.

<- Back

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HST Fire

ISO 9001 : 2008

# Conventional

# Conventional

## Control panel

**Model Number:** HST-HP1010


## Specifications

| | |
|---|---|
| Supply Voltage | 120VAC (50hz/60hz) or 240VAC (50hz/60hz |
| Power Supply | 24V @ 6.5 Amps |
| Number of Zones | HP1010-2 (2 Zones), HP1010-4 (4 Zones), HP1010-8 (8 Zones) |
| Display 2 | line x 16 character LCD |
| Charger Current | 0.98A @ 22VDC max. |
| Battery 2 x | 12VDC, 18AH max. |
| Operating Temperature | 32° F ~ 120°F (0°C ~ 49°C) |
| Dimension | 370mm X 393mm X 112mm |
| Weight | 10Kg |

## General Description:

The HP1010 series is available in a 2, 4, or 8 zone conventional panel design which is in accordance with UL 864 9th Edition Listing Detection and Fire Alarm Systems – Control and Indicating Equipment. The HP1010 series are fully programmable using simple front panel menu options. HP1010 supports releasing of agent (FM-200, 3M Novec, etc) and water (Pre-action, Deludge, etc.) on the HP1010-4 and HP1010-8 models only. Also, Built-in Dialer on HP1010-2, HP1010-4 and HP1010-8 models only. This conventional control panel offers programing features to the user. The panel is a single board construction, which is installer friendly. The panel is compatible with a wide range of HST detection devices.

## HP203 Local LCD

**Conventional Fire Alarm Control Panel Repeaters**

Designed and manufactured to the highest standards in a quality controlled environment the HP203 fire alarm annunciator provides a simple and convenient method of extending the controls and indications of the HP1010 fire alarm control panel to other locations.The large, graphic liquid crystal display and high brightness LED indicators duplicate the indications on the HP1010 Conventional fire alarm control panel at up to 4 additional locations via a simple, two-wire serial data connection.The HP203 is available in a 24V DC powered (which can be powered via an additional 2 cores from the HP1010 control panel/local 24V DC supply). HP203 is housed in a small enclosure which is styled similarly to the HP1010 panel and is ideal for installations where a large control panel would be detrimental to décor such as entrance halls. Up to 4 HP203 annunciators can be connected to each control panel on the network making VIEW ideal where multiple points of indication and/or control are required such as nurses stations or shop units. 2 core RS485 (Up to 1200 metres total cable length). And 2 core for 24V DC.



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# Conventional

## Control panel

**Model Number:** HST-HP101B


## Specifications

| Panel | Hstfire+ 1-8 | Hstfire+ 9-16 |
|---|---|---|
| Mains Voltage (V AC) | 240 | 240 |
| System Voltage (V DC) | 28.4 | 28.4 |
| Quiescent Current, Unsilenced Fault (mA) | 115 | 135 |
| Minimum Battery Size 2 x 12V Required (Ah) | 7 | 7 |
| Detector Voltage (V DC) | 20 | 20 |
| Number of Sense Zones | 1-8 | 9-16 |
| Maximum Number of Detectors | 30 | 30 |
| Firing Resistance (Ohms) | 510 ± 200 | 510 ± 200 |
| Sense Zone End of Line (Ohms) | 3k3 | 3k3 |
| Alarm Voltage (V DC) | 28.4 | 28.4 |
| Number of Alarm Zones | 2 | 2 |
| Maximum Alarm Current per Zone | 300 | 300 |
| Maximum Number of Sounder | 16 | 16 |
| Alarm Zone End of Line (Ohms) | 10k | 10k |
| Max. Auxiliary Supply Current in Fire (mA) | 50‡ | 50‡ |
| Panel Weight [Including Batteries] | 4.15 [10] | 4.25 [10] |
| Panel Dimensions (mm) | 335 x 265 x 87 | 335 x 265 x 87 |

## General Description:

The Hstfire+ 1-16 range of fire alarm control panels are microprocessor controlled and are available with 1 to 16 sense zones (detector zones) dependent on the model.The panels have 2 alarm zones (bell zones), zone disable facility, one man test, a class change input, non-latching facility, a permanent 28V fused supply, a 28V supply energized on fire, one set of volt free changeover contacts which operate on fault, and two sets of volt free changeover contacts which operate on fire.


## HP103C

### Conventional Fire Alarm Control Panel Repeaters

The HP103 Repeater is compatible with all HP101 control panels Repeaters are available with 16 zones with 24V powered (DC). Mains powered repeaters require only a two core data cable from the main control panel. 24V DC versions require an additional two cores for power either from the main panel or from another 24V DC source.

A mixture of Repeaters or Ancillary boards up to a maximum of 4of each type can be connected to a control panel and each is allocated an address from 1 to 4 using a binary coded DIP switch. The total length of the data cable from the main panel to the last repeater must not exceed 1200 metres.



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# Conventional

## Control panel

**Model Number:** HST-HP101U

## General Description:

The HP101U Series Conventional Fire Alarm Control Panel is a 24 volt, four to sixteen-zone, Class B, Conventional Fire Alarm Control Panel. Designed exclusively to meet the latest market requirements and future ULC codes, the highly cost-effective IDC1000 Series can be used in a variety of low- to mid-sized applications.

## Specifications

| | |
|---|---|
| AC Power | 110 TO 260 VAC, 50 Hz, 3.0 amps. Wire size: minimum #14 AWG (2.0 mm2) with 600V insulation |
| Battery (lead acid only) | Maximum Charger Capacity: 18 Amp Hour batter Maximum Charging Circuit: Normal Flat Charge-27.6V @ 0.8 amp General Alarm Zones 1 through 16 |
| Sound Output Device Circuits | Operation: All zones Class B Nominal 24 VDC (ripple = 100 mV maximum) |
| Normal Operating Voltage | Alarm Current: 15 mA threshold |
| Short Circuit Current | 42 mA maximum |
| End-of-Line Resistor: | 4.7K, ½ watt |
| Standby Current | 7.26 mA |
| Three Relays Output | Relay contact rating: 2.0 amps @ 30 VDC (resistive), 2.0 amps @ 30 VAC (resistive) |
| No resettable 24 VDC Power | Maximum ripple voltage: 10 mVRMS |
| Maximum Loop Resistance | 100 ohms |

## Features:

our Zones Style B (Class B) Initiating Device Circuits (IDCs).
• All zones accept two-wire smoke detectors and any normally-open contact devices.
• Zones 1 - 4 configured as general alarm zones.
• All circuits are power-limited and supervised, meeting the latest ULC requirements using fuse less technology.
• Two built-in, Style Y (Class B) Notification Appliance (Signal) Circuits (NACs).
• NACs may be programmed: Silence able.– Non-Silence able.– Auto-Silence (5 to 20 Minutes).
• 1.25 amps of NAC power& 3.0 amps of total system power.
• Alarm, Trouble and Supervisory, Form-C relays standard.& 24-volt operation.
•Resettable four-wire smoke detector power @ 500 mA. Non-resettable power @ 500 mA.
• Integral battery charger capable of charging up to 18 AH batteries (batteries over 4 AH require use of the external battery back box, or ULC listed equivalent).
• One-man walk-test programmable for silent or audible test. Disable/Enable control per IDC.
• Reverse polarity protection.
• Control buttons: Mode – Test – ACK (Acknowledge) Alarm Silence – Reset
• LED indicators: AC Power(green & yellow LED)– Fire Alarm(red LED)– Trouble(yellow LED) – Supervisory(yellow LED) – Signal Silence(yellow LED)– Battery Power(green & yellow LED)
– Zone Disable(yellow LED)– NAC Fault(yellow LED)– NAC Disable(yellow LED)
– Zone Alarm(one for each zone) (red LED)– Zone Trouble(one for each zone) (yellow LED)
– Earth Fault (on circuit board)– Battery Fault (on circuit board)–
Charger Fault (on circuit board)



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# Conventional

## Control panel

**Model Number:** HST-HP102


CE

## Specifications

| | | |
|---|---|---|
| Mains supply | 90 to 270VAC, 50Hz/60Hz(100 Watts maximum) | |
| Mains supply fuse | 3 Amp ( F3A L250V) | Replace only with similar type |
| Power supply rating | 3 Amps total including battery charge 28V +/- 2V | |
| Maximum ripple current | 200 millivolts | |
| Battery type | Two 12 Volt sealed lead acid in series. | 7Ah maximum |
| Battery charge voltage | 27.6VDC nominal | |
| Battery charge current | 0.7A maximum | |
| Battery fuse | 20mm, 3.15 glass | |
| Current draw in mains fail condition | 0.095 Amps | With buzzer sounding |
| Current draw in second stage alarm | 0.235A | Two Zones in fire (470 ohm in circuit) |
| Current draw in post discharge condition | 0.310A | solenoid outputs active |
| Maximum current draw from batteries | 3Amps | With main power disconnected |
| R0V output | Fused at 500Ma with electronic fuse | |
| Sounder outputs | 21 to 28V DC Fused at 500mA with electronic fuse | 1.6Amp total load over all circuits |
| Fault relay contact rating | 5 to 30VDC 1A Amp maximum for each | Volt free changeover contact |
| Fire relay contact rating | 5 to 30VDC 1A Amp maximum for each | Volt free changeover contact |
| Local fire relaycontact rating | 5 to 30VDC 1A Amp maximum for each | Volt free changeover contact |
| First stage contact rating | 5 to 30VDC 1A Amp maximum for each | Volt free changeover contact |
| Second stage contact rating | 5 to 30VDC 1A Amp maximum for each | Volt free changeover contact |

## General Description:

The Panel is a 4-zone to 16-zone FACP (Fire Alarm Control Panel), which uses conventional input devices. The panel accepts water flow devices, two-wire smoke detectors, four-wire smoke detectors, pull stations and other normally-open contact devices. Outputs include four Notification Appliance Circuits (NAC, SOUND1-4), three standard Form-A relays (alarm, trouble and supervisory) and an EIA-485 port to interface with remote annunciators and optional remote relay modules. The FACP is field programmable via the panel keypad. It also supervises all wiring, AC voltage and battery level. This series of panels are basically the same in application and operation, their differences are shown in Table 1-1. The Panel will be described as the example in the following sections.



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# Conventional

## Control panel

**Model Number:** HST-HP102


## Specifications

| | | |
|---|---|---|
| Extract contact rating | 5 to 30VDC 1A Amp maximum for each | Volt free changeover contact |
| Zone quiescent current | 0mA minimum, 2mA maximum | |
| Terminal capacity | 0.5mm2 to 2.5mm2 solid or stranded wire | |
| Number of detectors per zone | Dependent on type | |
| Number of sounders per circuit | Dependent on type and current consumption | |
| Detection circuit end of line | 6K8±5% 1/2 Watt resistor | |
| Monitored input end of line | 6K8±5% 1/2 Watt resistor | |
| Sounder circuit end of line | 10K±5% 1/2 Watt resistor | |
| Extinguishant output end of line | 1N4004 Diode | |
| No. of detection circuits | Four 21 to 28V DC | |
| No. of sounder circuits | Three 21 to 28V DC | 2X first stage,1X second stage |
| Extinguishant release output | 21V to 28V DC. Maximum load 1 Amp | |
| Extinguishant release delay | Adjustable 0 to 75 seconds | 5 second steps |
| SIL, AL, FLT, RST inputs | Switched –ve, min resistance 0 ohms, max 470 ohms | |
| Zone normal threshold (Allowable EOL) | 10K ohms to 2K ohms | Use 6K8 end of line resistor |
| Detector alarm threshold | 1K ohms to 390 ohms | |
| Call point alarm threshold | 370 ohms to 150 ohms | |
| Short circuit threshold | 130 ohms to 0 ohms | |
| Head removal condition | 15.5 to 17.5 volts+/- 5% | |
| Cabling | FP200 or equivalent | Metal cable glands must be used. |

| | | |
|---|---|---|
| Monitored inputs normal threshold | 10K ohms to 2K ohms | |
| (Allowable EOL) | 2K ohms to 150 ohms+/-5% | |
| Monitored inputs alarm threshold | 140 ohms to 0 ohms+/-5% | |
| Monitored inputs Shortcircuit threshold | Two wire RS485 connection with electronic fuse. | Max. of 16 units-RS485 data cable |
| Status unit/Ancillary boardconnection | Two wire RS485 connection with electronic fuse. | Max. of 16 units-RS485 data cable |
| Status unit power output | 21 to 28V DC, Fused at 500mA with electronic fuse. | 300 milliamp maximum load |



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# Conventional

## Photoetectric smoke detector

**Model Number:** HST-HD101B

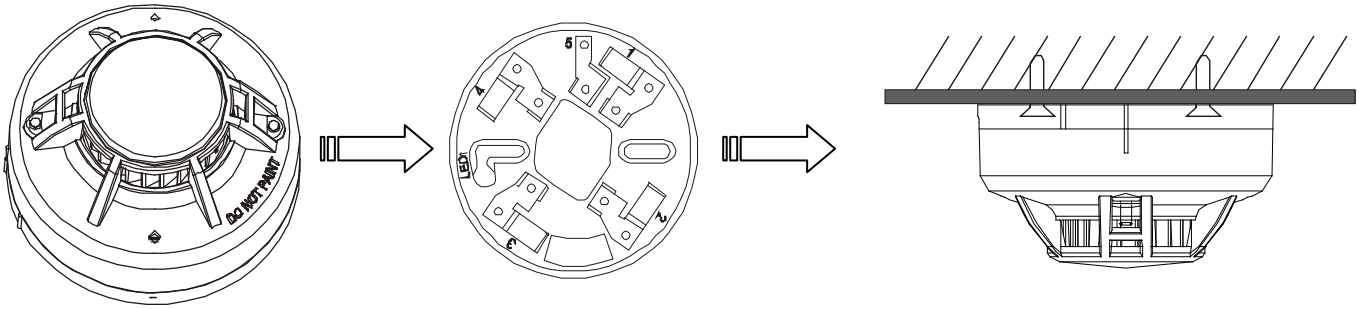
0370-CPD-1209 EN 54-7:2000

## Specifications

| | |
|---|---|
| Operating Voltage Range | 9 to 28VDC Volts Non-polarized |
| Standby Current | ≤60μA @ 24 VDC |
| Maximum Alarm Current (LED on) | ≤30mA @ 24 VDC |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | 14°F to 122°F (-10°C to50°C) |
| Adjustable Sensitivity | 1.06±.26%FT. |
| Height | 2.2″ (55 mm) installed in Base |
| Diameter | 4.0″ (103 mm) |
| Weight | 5.5 oz. (155 g) |

## General Description:

The device is photoelectronic detector uses a state of-the-art optical sensing chamber. This detector is designed to provide open area protection and to be used with most conventional fire alarm control panel. Two LEDs on each detector provide local 360° visible alarm indication.They flash every 3~5 seconds indicating that power is applied and the detector is working properly. The LEDs latch on in alarm. LEDs will be off when a trouble condition exists indicating that the detector sensitivity is outside the listed limit. The alarm can be reset only by a momentary power interruption.



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# Conventional

## Heat detector

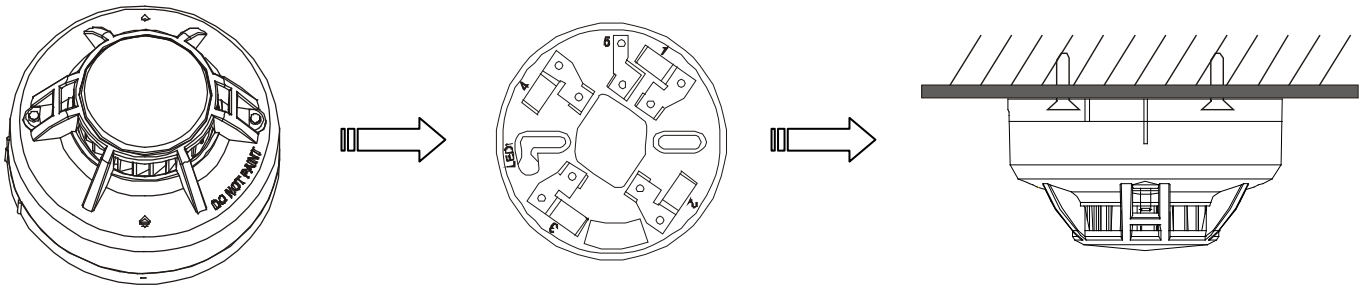
**Model Number:** HST-HD102B

## Specifications

| | |
|---|---|
| Installation Temperatures | 14°F to 122°F (-10°C to50°C) |
| Operating Humidity Range | 10% to 93% Relative Humidity Non-condensing |
| Operating Voltage Range | 9 to 28VDC Volts Non-polarized |
| Standby Current | 40µA @ 24 VDC |
| Maximum Alarm Current (LED on) | ≤30mA @ 24 VDC |
| Fixed Temperature Rating | 135°F (57°C) |
| Height | 2.2″ (55 mm) installed in Base |
| Diameter | 4.0″ (103 mm) |
| Weight | 5.5 oz. (155 g) |

## General Description:

The device is intelligent sensors that utilize a state-of-the-art thermistor sensing circuit for fast response. These sensors are designed to provide open area protection with 50 foot spacing capability. The device is a rate-ofrise temperature sensor with 135°F fixed temperature alarm.
The device is a rate-of-rise with fixed temperature alarm thermal detector utilizing a state-of-the-art dual thermistor sensing circuit. These detectors are designed to provide open area protection with 50-foot spacing capability, and are to be used with compatible control panels only. Two LEDs on each detector light to provide 360° visibility of the detector indication.



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# Conventional

## Photoetectric smoke & heat detector

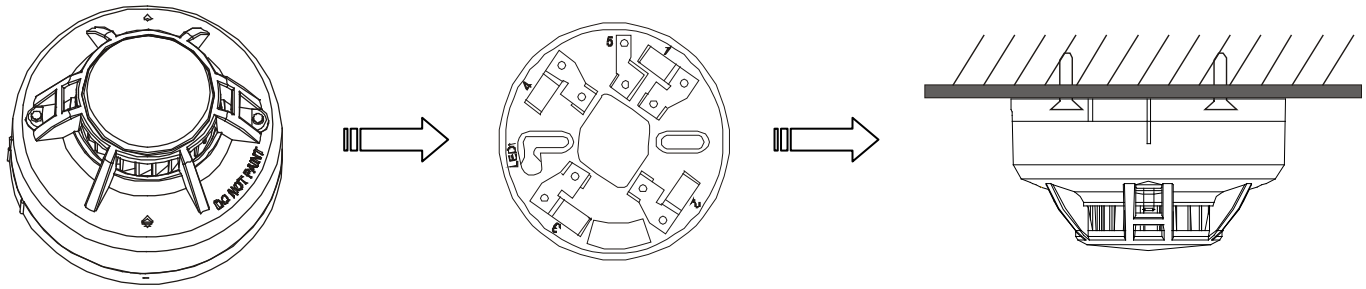
**Model Number:** HST-HD103B

## Specifications

| | |
|---|---|
| Operating Voltage Range | 9 to 28VDC Volts Non-polarized |
| Standby Current | ≤60μA @ 24 VDC |
| Maximum Alarm Current (LED on) | 10% to 93% Relative Humidity, Non-condensing |
| Operating Humidity Range | 14°F to 120°F (-10°C to 49°C) |
| Operating Temperature Range | 1.06±.26%FT |
| Smoke Sensitivity | 135°F (57°C |
| Fixed Temperature Rating | ≤30mA @ 24 VDC |
| Height | 2.2″ (55 mm) installed in Base |
| Diameter | 4.0″ (103 mm) |
| Weight | 5.5 oz. (155 g) |

## General Description:

The device is photoelectronic detector uses a state of-the-art optical sensing chamber. This detector is designed to provide open area protection and to be used with most conventional fire alarm control panel. Two LEDs on each detector provide local 360° visible alarm indication. They flash every 3~5 seconds indicating that power is applied and the detector is working properly. The LEDs latch on in alarm. LEDs will be off when a trouble condition exists indicating that the detector sensitivity is outside the listed limit. The alarm can be reset only by a momentary power interruption.



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# Conventional

## Flame detector with relay output

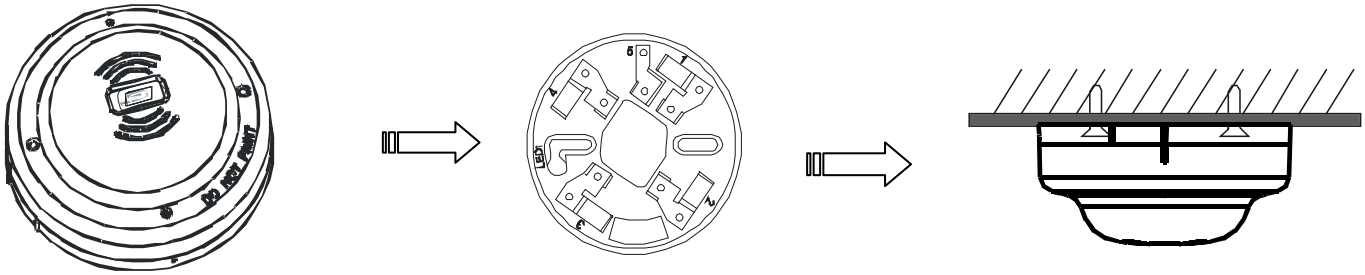
**Model Number:** HST-HD104B

## Specifications

| | |
|---|---|
| Operating Voltage Range | 12 to 30 VDC Volts |
| Standby Current | ≤10 mA @ 24 VDC |
| Alarm Current | ≤30 mA @ 24 VDC |
| Spectrum | 180~290nm |
| Detection Sensitivity | Grade I, 25m@flame (Container 33cmX33cm, Height 5cm with 2Kg ethanol ) |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | -10°C to 50°C (14°F to 122°F) |
| Height | 1.8″ (45 mm) installed in Base |
| Diameter | 4.0″ (103 mm) |
| Weight | 5.4 oz. (153g) |

## General Description:

The device is an Ultraviolet-only flame detector designed to detect fires and provide alarm outputs directly from the detector while maintaining false alarm immunity. It detects in the ultraviolet (UV) spectral range for optimized speed of response. It is fast and capable to detecting the ultraviolet (UV) rays emitted by a burning substance and is used in high hazard applications such as petrochemical plants, munitions factories and other areas where flammable or explosive liquids or solids are handled or stored.The flame sensor adopts an ultraviolet photosensitive tube, with qualities of highly sensitive, reliable, dust-resistant, corrosion proof and moisture-resistant, therefore is not sensitive in sunlight, dust, oil, tolerance of fume, and humidity. Set in a standard calibration to detect a flames at a distance of 25 meters, which flame created by 2Kg ethanol in a Container of Base 33cmX33cm, Height 5cm.





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# Conventional

## Photoetectric smoke detector

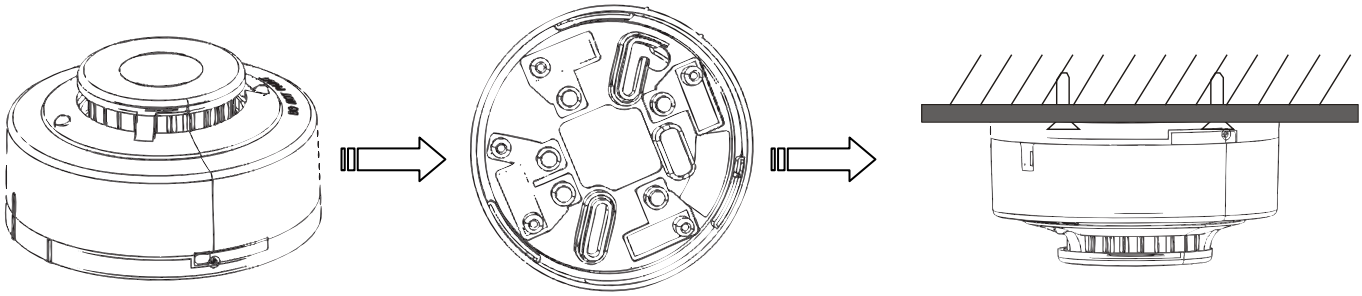
**Model Number:** HST-HD101Y

## Specifications

| | |
|---|---|
| Operating Voltage Range | 9 to 28VDC Volts Non-polarized |
| Standby Current | ≤60μA @ 24 VDC |
| Maximum Alarm Current (LED on) | ≤30mA @ 24 VDC |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | 14°F to 122°F (-10°C to50°C) |
| Height | 2.2″ (55 mm) installed in Base |
| Weight | 5.5 oz. (155 g) |

## General Description:

The device is photoelectronic detector uses a state of-the-art optical sensing chamber. This detector is designed to provide open area protection and to be used with most conventional fire alarm control panel. Two LEDs on each detector provide local 360° visible alarm indication. They flash every 3~5 seconds indicating that power is applied and the detector is working properly. The LEDs latch on in alarm. LEDs will be off when a trouble condition exists indicating that the detector sensitivity is outside the listed limit. The alarm can be reset only by a momentary power interruption.





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# Conventional

## Heat detector

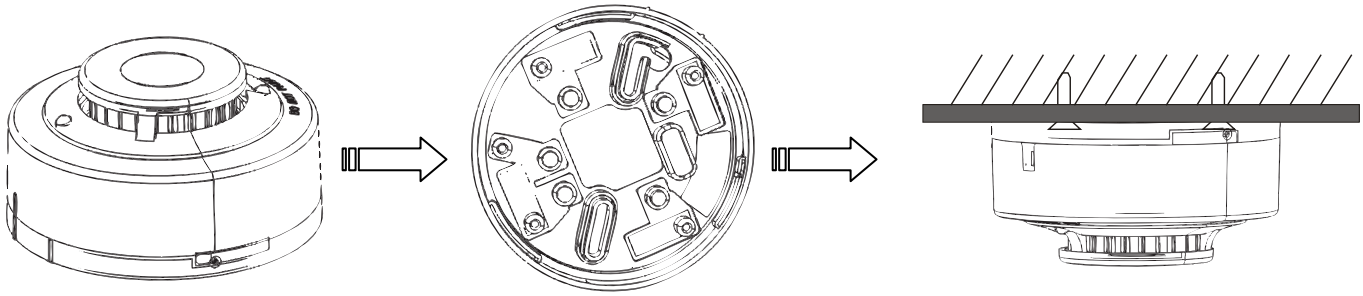
**Model Number:** HST-HD102Y

## Specifications

| | |
|---|---|
| Operating Voltage Range | 12 to 30 VDC Volts |
| Standby Current | ≤10 mA @ 24 VDC |
| Alarm Current | ≤30 mA @ 24 VDC |
| Spectrum | 180~290nm |
| Detection Sensitivity | Grade I, 25m@flame (Container 33cmX33cm, Height 5cm with 2Kg ethanol ) |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | -10°C to 50°C (14°F to 122°F) |
| Height | 1.8″ (45 mm) installed in Base |
| Diameter | 4.0″ (103 mm) |
| Weight | 5.4 oz. (153g) |

## General Description:

The device is intelligent sensors that utilize a state-of-the-art thermistor sensing circuit for fast response. These sensors are designed to provide open area protection with 50 foot spacing capability. The device is a rate-ofrise temperature sensor with 135°F fixed temperature alarm. The device is a rate-of-rise with fixed temperature alarm thermal detector utilizing a state-of-the-art dual thermistor sensing circuit. These detectors are designed to provide open area protection with 50-foot spacing capability, and are to be used with compatible control panels only. Two LEDs on each detector light to provide 360° visibility of the detector indication.





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# Conventional

## Mini smoke detector

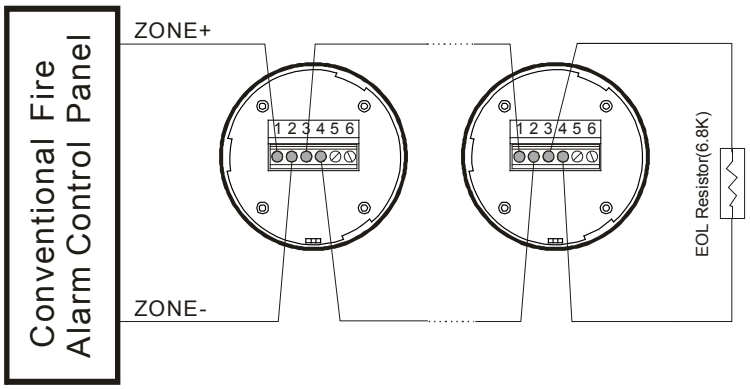
**Model Number:** HST-HD101Mini

## Specifications

| | |
|---|---|
| Operating Voltage Range | 9 to 28 VDC Volts Non-polarized |
| Standby Current | ≤120μA@24VDC |
| Maximum Alarm Current (LED on) | ≤20mA@24VDC |
| Operating Temperature Range | ≤95%RH(40°C±2°C) Relative Humidity, Non-condensing |
| Operating Humidity Range | -10°C to 50°C (14°F to 122°F) |
| Smoke Alarm Sensitivity | 1.06±.26%FT |
| Temperature Alarm Sensitivit | 57°C (135°F) A1R (only for with heat sensor) |
| Height | 42 mm installed in Base |
| Diameter | 64 mm |

## General Description:

The detectors are photo-electronic detector uses a state of-the-art optical sensing chamber. This detector is designed to provide open area protection and to be used with most conventional fire alarm panel. Two LEDs on each detector provide local 360° visible alarm indication.They flash every six seconds indicating that power is applied and the detector is working properly. The LEDs latch on in alarm. LEDs will be off when a trouble condition exists indicating that the detector sensitivity is outside the listed limit. The alarm can be reset only by a momentary power interruption.The detector that initiated the alarm condition will have its red LED and relays latched until reset by panel. Heat detector and smoke & heat detector combine a photo electronic sensing chamber and a temperature heat detector.



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# Conventional

## Mini heat detector

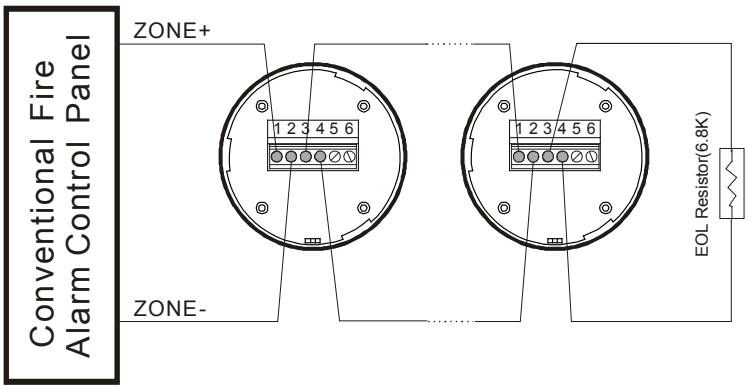
**Model Number:** HST-HD102Mini

## Specifications

| | |
|---|---|
| Operating Voltage Range | 9 to 28 VDC Volts Non-polarized |
| Standby Current | ≤120μA@24VDC |
| Maximum Alarm Current (LED on) | ≤20mA@24VDC |
| Operating Humidity Range | ≤95%RH(40°C±2°C) Relative Humidity, Non-condensing |
| Operating Temperature Range | -10°C to 50°C (14°F to 122°F) |
| Smoke Alarm Sensitivity | 1.06±.26%FT |
| Temperature Alarm Sensitivity | 57°C (135°F) A1R (only for with heat sensor) |
| Height | 42 mm installed in Base |
| Diameter | 64 mm |

## General Description:

The detectors are photo-electronic detector uses a state of-the-art optical sensing chamber. This detector is designed to provide open area protection and to be used with most conventional fire alarm panel. Two LEDs on each detector provide local 360° visible alarm indication. They flash every six seconds indicating that power is applied and the detector is working properly. The LEDs latch on in alarm. LEDs will be off when a trouble condition exists indicating that the detector sensitivity is outside the listed limit. The alarm can be reset only by a momentary power interruption.The detector that initiated the alarm condition will have its red LED and relays latched until reset by panel. Heat detector and smoke & heat detector combine a photo electronic sensing chamber and a temperature heat detector.



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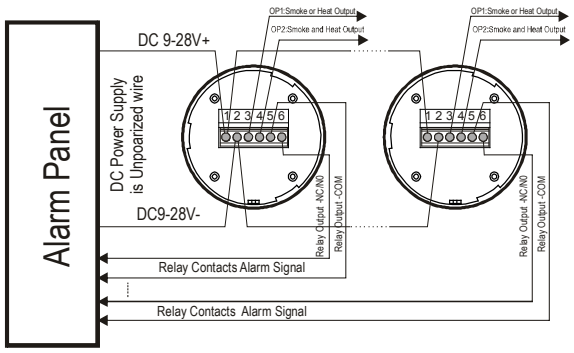
# Conventional

## Mini multi smoke & heat detector

**Model Number:** HST-HD103Mini

## Specifications

| | |
|---|---|
| Operating Voltage Range | 9 to 28 VDC Volts Non-polarized |
| Standby Current | ≤120μA@24VDC |
| Maximum Alarm Current (LED on) | ≤30mA@24VDC |
| Operating Humidity Range | ≤95%RH(40°C±2°C) Relative Humidity, Non-condensing |
| Operating Temperature Range | -10°C to 50°C (14°F to 122°F) |
| Smoke Alarm Sensitivity | 1.06±.26%FT |
| Fixed Temperature Rating | 57°C |
| Rate of Rise Detection | Responds to greater than 8.3°C /min |
| Height | 42 mm installed in Base |
| Diameter | 64 mm |




## General Description:

The detectors are photo-electronic smoke and heat detector uses a state of-the-art optical sensing chamber and high sensitivity thermal sensor. This detector is designed to provide open area protection and to be used with most conventional fire alarm panel and security alarm panel. One LED on the detector provides local visible alarm indication. The detector would be ready to work after power on 3 seconds. The LED would flash every six seconds indicating that power is applied and the detector is working properly. When detector smoke or heat sensor pre-alarms, the LED would flash 6 times and then the detector alarms. The LED would quick flash (0.25 second on/ 0.25 second off) when smoke sensor alarms, and meanwhile the OP1 have signal output. The LED would quick flash (0.25 second on/ 0.25 second off) 4 times, and then 1 seconds LED off when heat sensor alarms, and meanwhile the OP1 have signal output. When smoke and heat sensor alarms together, the OP2 has signal output, and then the LED would slow flash(0.5second on/0.5 second off) to the end of delay time, and then the LED would light on continuously and relay contacts activated when the delay time finished. LED will be flash once every one second when a trouble condition exists indicating that the detector sensitivity is outside the listed limit. The alarm can be reset only by a momentary power interruption.The detector would be reset automatically to the normal status after the smoke or heat sensor return from alarm status to the normal status 2 minutes late. When the smoke and heat alarms together, the detector would latch the alarm status until reset by panel.



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# Conventional

## Electric alarm bell

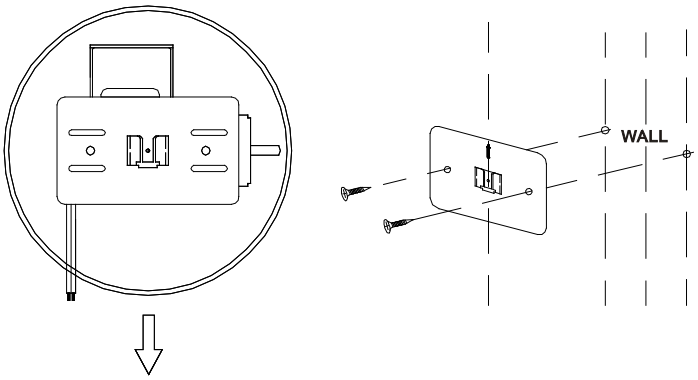
**Model Number:** HST-HB101

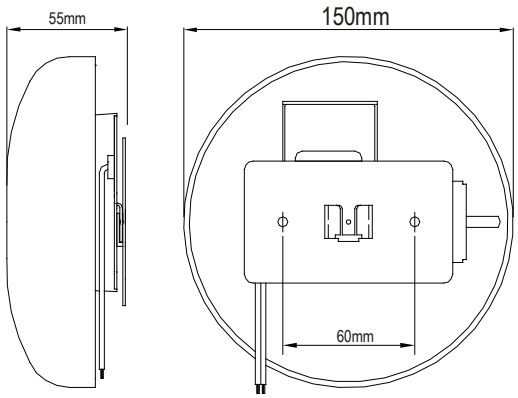

## Specifications

| | |
|---|---|
| Operating Voltage Range | DC24V |
| Alarm Current | Maximum 30 mA @ 24 VDC |
| Alarm Sound Intensity | Minimum 95dB |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | -15°C to 60°C |
| Input terminal Wire Gauge | 12 to 18 AWG |
| Dimensions | Diameter 150mm, Height 55mm |
| Weight | Net Weight 670g, Gross Weight 720g |

## General Description:

The Electric Alarm Bell of notification appliances offers a wide range of Sound, for wall and ceiling applications, indoors and outdoors.They are designed to be used in 24 volt DC systems. The system designer must make sure that the total current drawn by the devices on the loop does not exceed the current capability of the panel supply, and that the last device on the circuit is operated within its rated voltage. When calculating the voltage available to the last device, it is necessary to consider the voltage drop due to the resistance of the wire. The thicker the wire, the smaller the voltage drops. Wire resistance tables can be obtained from electrical handbooks.



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# Conventional

## Electric alarm bell

**Model Number:** HST-HB102

## Specifications

| | |
|---|---|
| Operating Voltage Range | DC24V |
| Alarm Current | Maximum 30 mA @ 24 VDC |
| Alarm Sound Intensity | Minimum 95dB |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | -15°C to 60°C |
| Input terminal Wire Gauge | 12 to 18 AWG |
| Dimensions | Diameter 150mm, Height 55mm |
| Weight | Net Weight 670g, Gross Weight 720g |

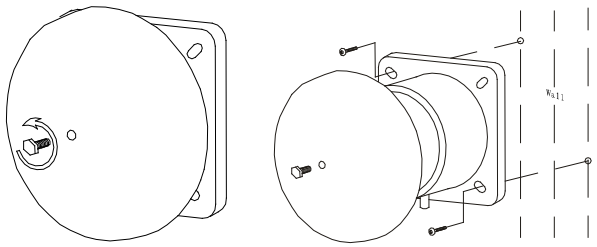
## General Description:

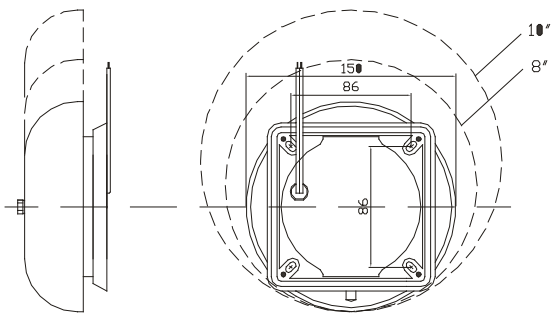
The Electric Alarm Bell of notification appliances offers a wide range of Sound, for wall and ceiling applications, indoors and outdoors. They are designed to be used in 24 volt DC systems.

Loop Design and Wiring

The system designer must make sure that the total current drawn by the devices on the loop does not exceed the current capability of the panel supply, and that the last device on the circuit is operated within its rated voltage.

When calculating the voltage available to the last device, it is necessary to consider the voltage drop due to the resistance of the wire. The thicker the wire, the smaller the voltage drops. Wire resistance tables can be obtained from electrical handbooks.





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# Conventional

## Electric alarm bell

**Model Number:** HST-HB103

## Specifications

| | |
|---|---|
| Operating Voltage Range | DC24V |
| Alarm Current | Maximum 30 mA @ 24 VDC |
| Alarm Sound Intensity | Minimum 95dB |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | -15°C to 60°C |
| Input terminal Wire Gauge | 12 to 18 AWG |
| Dimensions | Diameter 150mm, Height 55mm |
| Weight | Net Weight 670g, Gross Weight 720g |

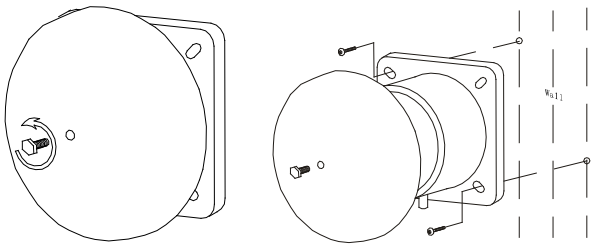
## General Description:

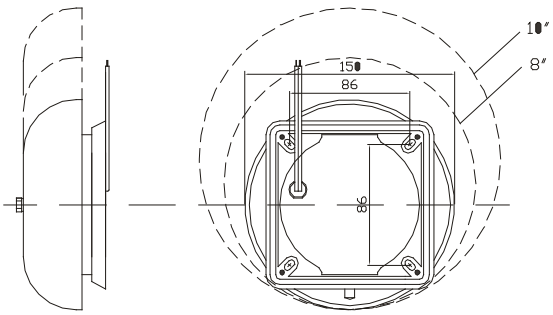
The Electric Alarm Bell of notification appliances offers a wide range of Sound, for wall and ceiling applications, indoors and outdoors. They are designed to be used in 24 volt DC systems.

Loop Design and Wiring

The system designer must make sure that the total current drawn by the devices on the loop does not exceed the current capability of the panel supply, and that the last device on the circuit is operated within its rated voltage.

When calculating the voltage available to the last device, it is necessary to consider the voltage drop due to the resistance of the wire. The thicker the wire, the smaller the voltage drops. Wire resistance tables can be obtained from electrical handbooks.





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# Conventional

## Sound storbe

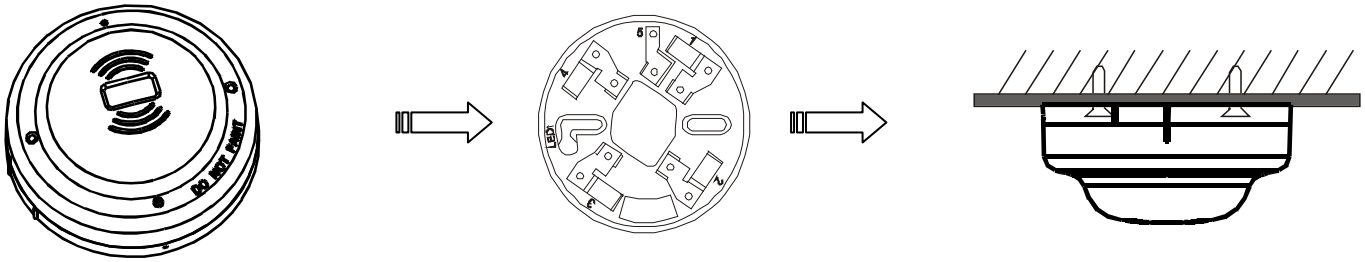
**Model Number:** HST-HS101

## Specifications

| | |
|---|---|
| Operating Voltage Range | 9 to 32 VDC Volts |
| Alarm Current | ≤50 mA @ 24 VDC |
| Strobe Flash Rate | ≤0.5S |
| Alarm Sound Intensity | Minimum 100dB |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | -10°C to 50°C (14°F to 122°F) |
| Input terminal Wire Gauge | 12 to 18 AWG |
| Height | 1.8˝ (45 mm) installed in Base |
| Diameter | 4.0˝ (103 mm) |
| Weight | 5.6 oz. (158 g) |

## General Description:

The Sound Strobe of notification appliances offers a wide range of Sound/strobes, for wall and ceiling applications, indoors and outdoors. They are designed to be used in 24 volt DC systems. The system designer must make sure that the total current drawn by the devices on the loop does not exceed the current capability of the panel supply, and that the last device on the circuit is operated within its rated voltage. When calculating the voltage available to the last device, it is necessary to consider the voltage drop due to the resistance of the wire. The thicker the wire, the smaller the voltage drops. Wire resistance tables can be obtained from electrical handbooks.





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# Conventional

## Sound storbe

**Model Number:** HST-HS103


CE

## Specifications

| | |
|---|---|
| Operating Temperature | -10°C to 50°C |
| Operating Humidity | 0 to 95 RH, |
| Operating Voltage | 22VDC to 30VDC |
| Average Current | 70 mA |
| Light Output | ≥ 1.2 WS |
| Flash Rate | ≤ 2 seconds |
| Sound Level | ≥ 100dB |
| Light Life | ≥ 30000 flashes |

## General Description:

The Sound Strobe of notification appliances offers a wide range of Sound/strobes, for wall and ceiling applications, indoors and outdoors. They are designed to be used in 24 volt DC systems.



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# Conventional

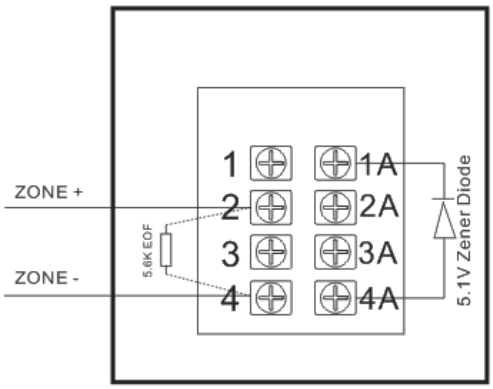
## Call point

**Model Number:** HST-HC101


CE

## Specifications

| | |
|---|---|
| Operating Voltage Range | 24 VDC Volts |
| Alarm Current | 10 to 30 mA @ 24 VDC |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | -10°C to 50°C (14°F to 122°F) |
| Input terminal Wire Gauge | 12 to 18 AWG |
| Dimensions | Length 88mm, Width 88mm, Depth 50mm |
| Weight | Net Weight 172g, Gross Weight 185g |




## General Description:

The HC101 conventional manual call point designed for conventional fire alarm system for reporting fire or emergency condition by its OPEN/PRESS. One 470 ohm resistor is used on the PCB board between Zone+ and Zone- when the switch inside is closed. So the HC101 conventional manual call point is only used with conventional fire alarm control panel, it is forbidden to be used to other system. The manual call points provide a textured finger-hold area that includes Braille text. In addition to OPEN/PRESS text, there are arrows indicating how to operate the station, provided for non-English-speaking people. OPENING in and then PRESSING activates the normally-open alarm switch. Once latched in the down position, the word “ACTIVATED” appears at the top in bright yellow, with a portion of the handle protruding at the bottom as a visible flag. Resetting the station is simple: insert the key, twist one quarter-turn, then open the station’s front cover, causing the spring-loaded operation handle to return to its original position. The alarm switch can then be reset to its normal (non-alarm) position manually (by hand) or by closing the station’s front cover, which automatically resets the switch.



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# Conventional

## Call point

**Model Number:** HST-HC102


CE

## Specifications

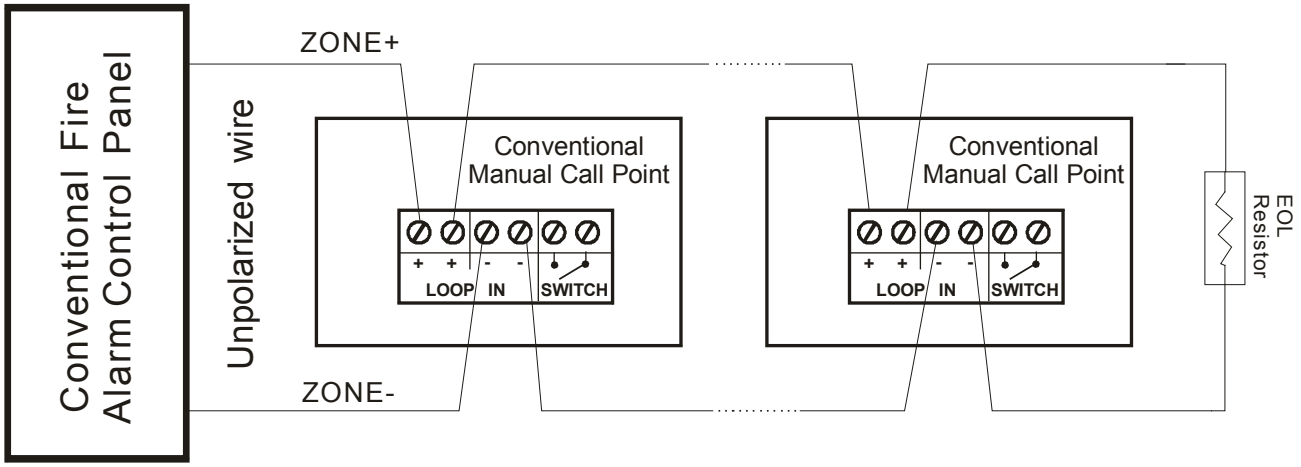
| | |
|---|---|
| Ordering Code | HC102 |
| Nominal operating resistance | 470Ω |
| Maximum contact resistance (R) | 200Ω |
| Ingress Protection Rating | IP24 |
| Operating Temperature Range | -10oC to + 50oC |
| Storage Temperature Range | -30oC to + 70oC |
| Maximum Humidity | 95%RH - Non condensing (at 40°C) |
| Colour / Case Material | Red / ABS |

## General Description:

The HC102 is a Conventional call-point based upon our industry standard series housing and features easy to install, push-fit wiring terminals.
The unit can support either a 'Frangible Glass' element or a 'Non Frangible Plastic' element.

## Features:

- Push in and Pull Down Call point
- Can be reset by Key
- Red colour
- Fire proof materials
- 470 Ohm Resistance
- Modern style Call Point



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# Conventional

## Remote Indication

**Model Number:** HST-HS104


CE

**General Description:**

The HS104 is a Conventional Remote Indication LED which connect to detector to show the alarm conditions with high bright Red Colour LED
Option white or red color cover
Support European and USA standard at the same
Modern Style



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HST Fire

ISO 9001 : 2008

# Addressable

# Addressable

## Control panel

**Model Number:** HST-HP201


## Specifications

| | |
|---|---|
| MAX. # PER Loop | 200 Address |
| Supply Voltage | 120VAC (50hz/60hz)<br>or 240VAC (50hz/60hz) |
| Power Supply | 24V @ 6.5 Amps |
| Display 2 | line x 16 character LCD |
| Charger Current | 0.98A @ 22VDC max. |
| Battery 2 x | 12VDC, 18AH max. |
| Operating Temperature | 32°F ~ 120°F (0°C ~ 49°C) |
| Dimension | 370mm X 393mm X 112mm |
| Weight | 10Kg |

## HP203 Local LCD

**Addressable Fire Alarm Control Panel Repeaters**

HP201 View for all events

Designed and manufactured to the highest standards in a quality controlled environment the HP203 fire alarm annunciator provides a simple and convenient method of extending the controls and indications of the HP201 fire alarm control panel to other locations.The large, graphic liquid crystal display and high brightness LED indicators duplicate the indications on the HP201 Addressable fire alarm control panel at up to 4 additional locations via a simple, two-wire serial data connection.The HP203 is available in a 24V DC powered (which can be powered via an additional 2 cores from the HP201 control panel/local 24V DC supply). HP203 is housed in a small enclosure which is styled similarly to the HP201 panel and is ideal for installations where a large control panel would be detrimental to décor such as entrance halls. Up to 4 HP203 annunciators can be connected to each control panel on the network making VIEW ideal where multiple points of indication and/or control are required such as nurses stations or shop units. 2 core RS485 (Up to 1200 metres total cable length). And 2 core for 24V DC.

## General Description:

The HP201 series is available in a 1Loop or 2 Loop. Addressable panel design which is in accordance with UL 864 9th Edition Listing Detection and Fire Alarm Systems – Control and Indicating Equipment. The HP201 series are fully programmable using simple front panel menu options or Computer Software . Programing features to the user. The panel is a single board construction, which is installer friendly. The panel is compatible with a wide range of HST detection devices. Fully programmable using simple menu options and Software. Simple, single board construction Installer friendly and supports flush or surface mount without a separate trim-ring Built-in two-line (32 Characters for each line) LCD display provides easy to read information
15 Key control buttons for easy programming, reset and silencing. Real time clock. Event History log (256 events) with Date/Time stamp, which can be viewed from LCD display Compatible with wide range of detection devices HST Protocol. 4 Programmable Supervised NAC outputs. Gentex Sync Protocol Built-in. 200 Device per loop included Detectors and Module 2Loop Panel. Three programmable general purpose relays. Dedicated alarm and trouble relays. Built-in walk test feature. Supports up to two 12V, 18Ah Backup batteries. Supports one Remote Annunciator via RS-485.



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# Addressable

## Control panel

**Model Number:** HST-HP201-T

### General Description:

The information provided in this manual covers all type of addressable fire alarm control panel. The panel range is designed to meet the requirements of EN54 Parts 2. The fire alarm control panels are compact, cost effective, intelligent addressable FACPs (Fire Alarm Control Panels) with an extensive list of powerful features. The panel is an analogue addressable fire detection and alarm control panel capable of covering a maximum of 1 to 4 loops and 250 devices per loop. Maximum 16 panels can be connected into a 16Zones LED TCP/IP Built in, 2 Alarm Relay output, 1 Relay Fault output, 2 Sounder Output, Keybad Control Mono Display, Software Programming Kebad Programming. This involves allocating an address to each device and allocating a message of up to 40 characters (including spaces) to each address to assist in the location of the devices. The control panel offers an extensive list of features and options for the control and monitoring of plant, equipment and sounders, which can be, configured via a PC configuration programmer or the front panel controls. In addition to the EN54-2 options with requirements below, the panel also supports facilities such as , programmable Function buttons and programmable auxiliary indications on the front of the panel. The range of compatible devices includes optical and ionization smoke sensors, heat sensors, manual call point, input module, control module. Interfaces to conventional detection systems can also be catered for using zone-monitoring devices.
Can connect Repeater

### HP203T Local LCD

**Addressable Fire Alarm Control Panel Repeaters**

HP201T View for all events
Designed and manufactured to the highest standards in a quality controlled environment the HP203T fire alarm annunciator provides a simple and convenient method of extending the controls and indications of the HP201T fire alarm control panel to other locations. The large, graphic liquid crystal display and high brightness LED indicators duplicate the indications on the HP201T Addressable fire alarm control panel at up to 4 additional locations via a simple, two-wire serial data connection. The HP203T is available in a 24V DC powered (which can be powered via an additional 2 cores from the HP201T control panel/local 24V DC supply) HP203T is housed in a small enclosure which is styled similarly to the HP201T panel and is ideal for installations where a large control panel would be detrimental to décor such as entrance halls. Up to 4 HP203T annunciators can be connected to each control panel on the network making VIEW ideal where multiple points of indication and/or control are required such as nurses stations or shop units. 2 core RS485 (Up to 1200 metres total cable length). And 2 core for 24V DC.



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# Addressable

## Control panel

**Model Number:** HST-HP201C-4


## Specifications

| | |
|---|---|
| AC Power | Terminal DZ1 of Main Circuit Board 220 VAC, 50 Hz, 1.5 amps<br>Wire size: minimum 14 AWG (2.00 mm2) with 600 V insulation |
| Battery (Sealed Lead Acid Only) | Terminal DZ2 of Main Circuit Board<br>Maximum Charging Circuit: Normal Flat Charge - 27.6 VDC @ 1.00 amp<br>Maximum Battery Size: 18 Amp Hour<br>Minimum Battery Size: 7 Amp Hour<br>(FACP cabinet holds maximum of two 18 Amp Hour batteries. For greater than 18 Amp Hour up to 26 Amp Hour batteries, use additional Battery Box) |
| Resettable DC24V Power (24VDC nominal) | Terminal DZ3, Terminals 1 (+) & 2 (-) & 3 (+) & 4 (-) of Main Circuit Board<br>Maximum ripple voltage: 10 mVRMS<br>Up to 1.5 amps is available for powering devices. Power-limited circuit, non-supervised |
| Non-resettable DC24V Power (24VDC Nominal) | Terminal DZ3, Terminals 5 (+) & 6 (-)<br>Maximum ripple voltage: 10mVRMS<br>Total DC current available from each output is up to 1.5amps Power-limited circuit, non-supervised |
| Four Programmable Output Relay | Terminal DZ4 & DZ5 of Main Circuit Board<br>Contact rating: 2.0 amps @ 30 VDC (resistive), 0.5 amps @ 30 VAC (resistive)<br>Each relay output can be set to Normal Close(NC) or Normal Open(NO) by the jump below the terminals. |
| EIA-485 (TERM) – Terminal COM2 of Main Circuit Board | Remote Repeater connector, Terminal 1 (A), 2 (B), 3 (DC24+), 4 (DC24-) |
| EIA-485 (TERM) – Terminal COM3 of Main Circuit Board | Multi Line Manual Control panel connector, Terminal 1 (A), 2 (B), 3 (DC24+), 4 (DC24-) |
| EIA-232 Serial – Terminal COM1 of Main Circuit Board | Local serial PC Connector, Terminal 1 (DC5V+), 2 (Transmit TX), 3 (Receive RX), 4 (Ground) |

## General Description:

The information provided in this manual covers all type of addressable fire alarm control panel. The panel range is designed to meet the requirements of EN54 Parts 2.The fire alarm control panels arecompact, cost effective, intelligent addressable FACPs (Fire Alarm Control Panels) with an extensive list of powerful features. The panel is an analogue addressable fire detection and alarm control panel capable of covering a maximum of 2 to 4 loops and 198 devices per loop. Maximum 64 panels can be connected into a network based on CAN network by internal network card(optional). Any number of devices can be allocated to any zone ensuring that any system configuration can be easily accommodated. To ensure that the system is installed and commissioned with the minimum of trouble, it should be carefully planned before the installation is begun. This involves allocating an address to each device and allocating a message of up to 40 characters (including spaces) to each address to assist in the location of the devices. The control panel offers an extensive list of features and options for the control and monitoring of plant, equipment and sounders, which can be, configured via a PC configuration programmer or the front panel controls. In addition to the EN54-2 options with requirements below, the panel also supports facilities such as , programmable Function buttons and programmable auxiliary indications on the front of the panel. The range of compatible devices includes optical and ionization smoke sensors, heat sensors, manual call point, input module, control module. Interfaces to conventional detection systems can also be catered for using zone-monitoring devices.



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# Addressable

## Control panel

**Model Number:** HST-HP201C-24

## Specifications

| | |
|---|---|
| AC Power | Terminal DZ1 of Main Circuit Board 220 VAC, 50 Hz, 1.5 amps<br>Wire size: minimum 14 AWG (2.00 mm2) with 600 V insulation |
| Battery (Sealed Lead Acid Only) | Terminal DZ2 of Main Circuit Board<br>Maximum Charging Circuit: Normal Flat Charge - 27.6 VDC @ 1.00 amp<br>Maximum Battery Size: 18 Amp Hour<br>Minimum Battery Size: 7 Amp Hour<br>(FACP cabinet holds maximum of two 18 Amp Hour batteries. For greater than 18 Amp Hour up to 26 Amp Hour batteries, use additional Battery Box) |
| Resettable DC24V Power (24VDC nominal) | Terminal DZ3, Terminals 1 (+) & 2 (-) & 3 (+) & 4 (-) of Main Circuit Board<br>Maximum ripple voltage: 10 mVRMS<br>Up to 1.5 amps is available for powering devices. Power-limited circuit, non-supervised |
| Non-resettable DC24V Power (24VDC Nominal) | Terminal DZ3, Terminals 5 (+) & 6 (-)<br>Maximum ripple voltage: 10mVRMS<br>Total DC current available from each output is up to 1.5amps Power-limited circuit, non-supervised |
| Four Programmable Output Relay | Terminal DZ4 & DZ5 of Main Circuit Board<br>Contact rating: 2.0 amps @ 30 VDC (resistive), 0.5 amps @ 30 VAC (resistive)<br>Each relay output can be set to Normal Close(NC) or Normal Open(NO) by the jump below the terminals. |
| EIA-485 (TERM) – Terminal COM2 of Main Circuit Board | Remote Repeater connector, Terminal 1 (A), 2 (B), 3 (DC24+), 4 (DC24-) |
| EIA-485 (TERM) – Terminal COM3 of Main Circuit Board | Multi Line Manual Control panel connector, Terminal 1 (A), 2 (B), 3 (DC24+), 4 (DC24-) |
| EIA-232 Serial – Terminal COM1 of Main Circuit Board | Local serial PC Connector, Terminal 1 (DC5V+), 2 (Transmit TX), 3 (Receive RX), 4 (Ground) |

## General Description:

The information provided in this manual covers all type of addressable fire alarm control panel. The panel range is designed to meet the requirements of EN54 Parts 2.The fire alarm control panels arecompact, cost effective, intelligent addressable FACPs (Fire Alarm Control Panels) with an extensive list of powerful features. The panel is an analogue addressable fire detection and alarm control panel capable of covering a maximum of 2 to 24 loops and 198 devices per loop. Maximum 64 panels can be connected into a network based on CAN network by internal network card(optional). Any number of devices can be allocated to any zone ensuring that any system configuration can be easily accommodated. To ensure that the system is installed and commissioned with the minimum of trouble, it should be carefully planned before the installation is begun. This involves allocating an address to each device and allocating a message of up to 40 characters (including spaces) to each address to assist in the location of the devices. The control panel offers an extensive list of features and options for the control and monitoring of plant, equipment and sounders, which can be, configured via a PC configuration programmer or the front panel controls. In addition to the EN54-2 options with requirements below, the panel also supports facilities such as , programmable Function buttons and programmable auxiliary indications on the front of the panel. The range of compatible devices includes optical and ionization smoke sensors, heat sensors, manual call point, input module, control module. Interfaces to conventional detection systems can also be catered for using zone-monitoring devices.



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# Addressable
## Repeater
**Model Number:** HST-HP203C

## HP203C Local LCD
### Addressable Fire Alarm Control Panel Repeaters

HP201C View for all events

Designed and manufactured to the highest standards in a quality controlled environment the HP203C fire alarm annunciator provides a simple and convenient method of extending the controls and indications of the HP201C fire alarm control panel to other locations. The large, graphic liquid crystal display and high brightness LED indicators duplicate the indications on the HP201C Addressable fire alarm control panel at up to 4 additional locations via a simple, two-wire serial data connection. The HP203C is available in a 24V DC powered (which can be powered via an additional 2 cores from the HP201C control panel/local 24V DC supply) HP203C is housed in a small enclosure which is styled similarly to the HP201C panel and is ideal for installations where a large control panel would be detrimental to décor such as entrance halls. Up to 4 HP203C annunciators can be connected to each control panel on the network making VIEW ideal where multiple points of indication and/or control are required such as nurses stations or shop units. 2 core RS485 (Up to 1200 metres total cable length). And 2 core for 24V DC.



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# Addressable

## Photoetectric smoke detector

**Model Number:** HST-HD201B

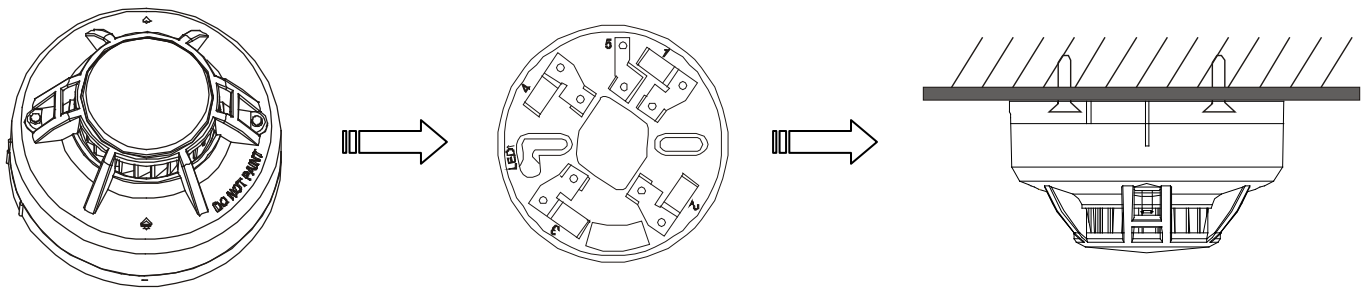
0370-CPD-1217 EN 54-7:2000

## Specifications

| | |
|---|---|
| Operating Voltage Range | 15 to 28 VDC |
| Standby Current | 400μA @ 24 VDC (one communication every 5 seconds with LED blink enabled) |
| Maximum Alarm Current (LED on) | 7 mA @ 24 VDC |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | 14°F to 122°F (-10°C to50°C) |
| Height | 2.2″ (55 mm) installed in Base |
| Diameter | 4.0″ (103 mm) |
| Weight | 5.5 oz. (155 g) |

## General Description:

The detector is plug-in type photoelectronic smoke and heat sensors with addressable analog communications. The sensors transmit an analog representation of smoke density or temperature over a communication line to a control panel. Inside MCU's EEPROM keep the sensor's address that can be set by a portable Address setting device.Two LEDs on the sensor are controlled by the panel to indicate sensor status.



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# Addressable

## Heat detector

**Model Number:** HST-HD202B

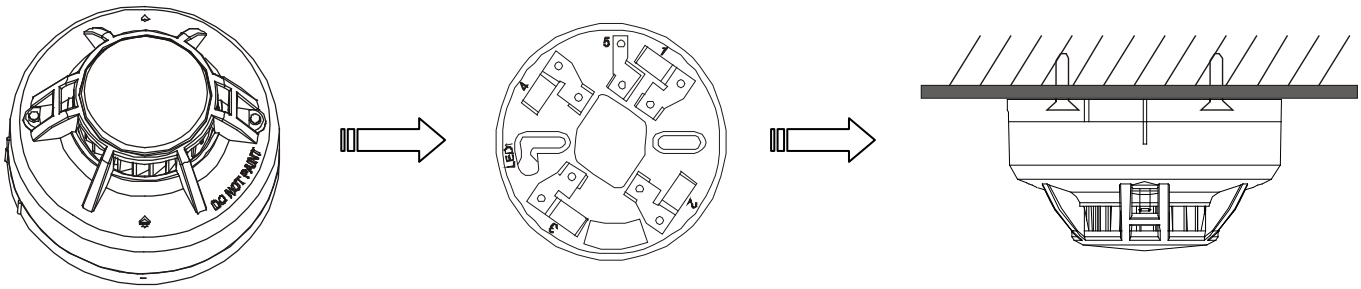

CE

## Specifications

| | |
|---|---|
| Operating Voltage Range | 15 to 28 VDC |
| Standby Current | 400µA @ 24 VDC (one communication every 5 seconds with LED blink enabled) |
| Maximum Alarm Current (LED on) | 7 mA @ 24 VDC |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | 14°F to 122°F (-10°C to50°C) |
| Fixed Temperature Rating | 135°F (57°C) |
| Rate of Rise Detection | Responds to greater than 15°F/min |
| Height | 2.2″ (55 mm) installed in Base |
| Diameter | 4.0″ (103 mm) |
| Weight | 5.5 oz. (155 g) |

## General Description:

The detector is intelligent sensorsthat utilize a state-of-the-art thermistor sensing circuit for fast response. These sensors are designed to provide open area protection with 50 foot spacing capability. The detector is a rate of rise temperature sensor with 135°F fixed temperature alarm. Inside MCU's EEPROM keep the sensor's address that can be set by a portable Address setting device. Two LEDs on each sensor light to provide 360° visibility of the sensor indication. The LEDs can be latched ON by code command from the panel for an alarm indication. The LEDs can also be unlatched to the normal condition by code command. The detector requires compatible addressable communications to function properly. Connect these sensors to listed-compatible control panels only.



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# Addressable

## Photoetectric smoke detector

**Model Number:** HST-HD203B

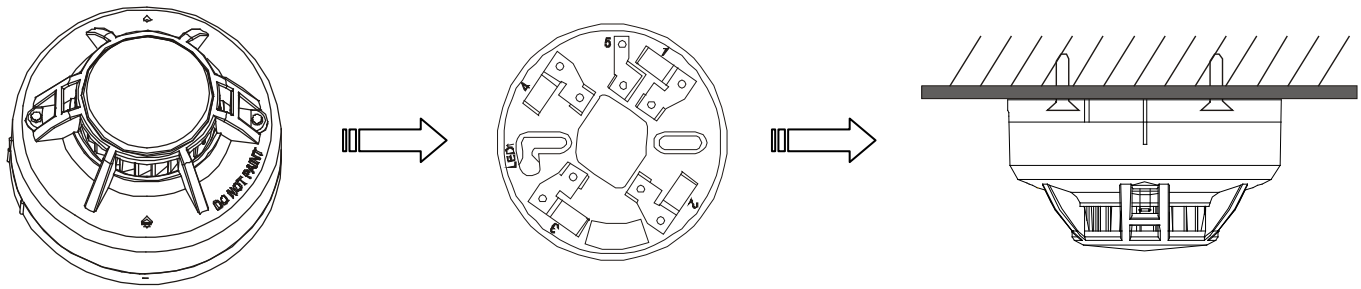

CE

## Specifications

| | |
|---|---|
| Operating Voltage Range | 15 to 28 VDC |
| Standby Current | 400µA @ 24 VDC (one communication every 5 seconds with LED blink enabled) |
| Maximum Alarm Current (LED on) | 7 mA @ 24 VDC |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | 14°F to 122°F (-10°C to50°C) |
| Fixed Temperature Rating | 135°F (57°C) |
| Rate of Rise Detection | Responds to greater than 15°F/min |
| Height | 2.2˝ (55 mm) installed in Base |
| Diameter | 4.0˝ (103 mm) |
| Weight | 5.5 oz. (155 g) |

## General Description:

The detector is plug-in type photoelectronic smoke and heat sensors with addressable analog communications. The sensors transmit an analog representation of smoke density or temperature over a communication line to a control panel. Inside MCU's EEPROM keep the sensor's address that can be set by a portable Address setting device. Two LEDs on the sensor are controlled by the panel to indicate sensor status. The detector require compatible addressable communications to function properly. Connect these sensors to listed-compatible control panels only.



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# Addressable

## Mini smoke detector

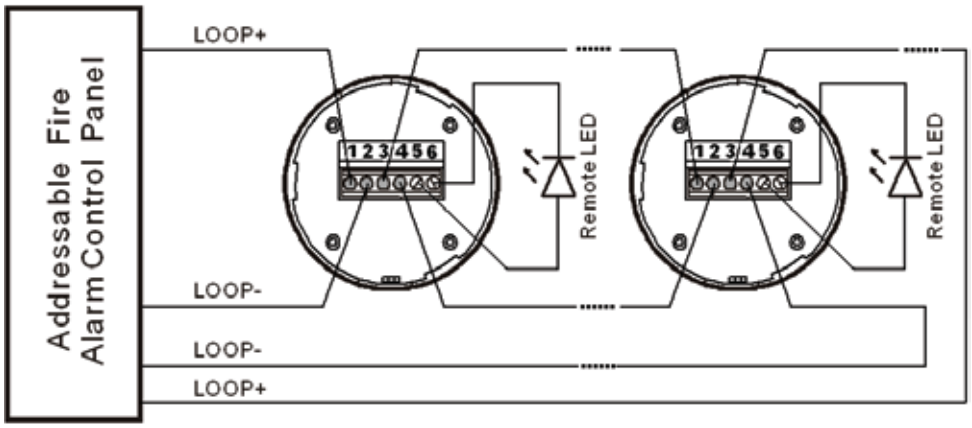
**Model Number:** HST-HD201Mini

## Specifications

| | |
|---|---|
| Operating Voltage Range | 15 to 28 VDC |
| Standby Current | 650μA @ 24 VDC (one communication every 5 seconds with LED blink enabled) |
| Maximum Alarm Current (LED on) | 5 mA @ 24 VDC |
| Operating Humidity Range | 14°F to 122°F (-10°C to50°C) |
| Operating Temperature Range | 10% to 93% Relative Humidity, Non-condensing |
| Smoke Sensitivity | 0.15-0.30dB/m |
| Height | 42 mm installed in Base |
| Diameter | 64 mm |

## General Description:

The detector is plug-in type photoelectronic smoke and heat sensors with addressable analog communications. The sensors transmit an analog representation of smoke density or temperature over a communication line to a control panel. Inside MCU's EEPROM keep the sensor's address that can be set by a portable Address setting device. Two LEDs on the sensor are controlled by the panel to indicate sensor status. The detector require compatible addressable communications to function properly. Connect these sensors to listed-compatible control panels only.



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# Addressable

## Mini heat detector

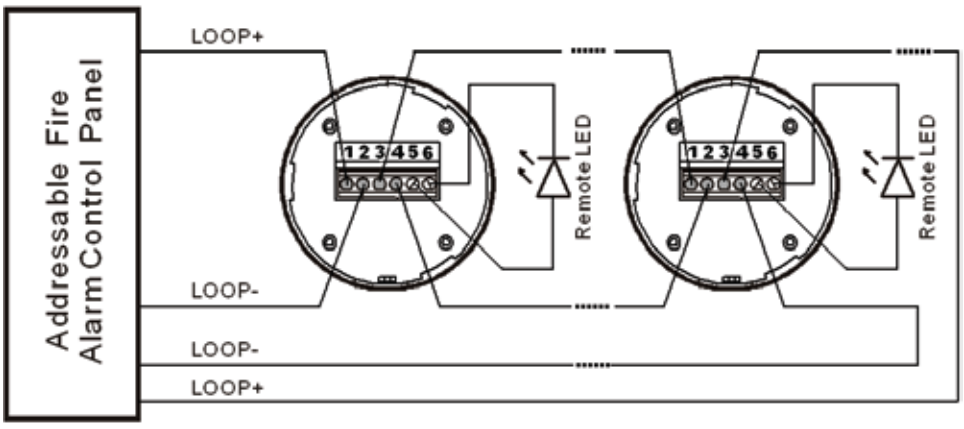
**Model Number:** HST-HD202Mini

## Specifications

| | |
|---|---|
| Voltage Range | 15 to 28 Volts DC Peak |
| Standby Current | 650 µA @ 24 VDC (one communication every 5 seconds with LED blink enabled) |
| LED Current | 5 mA @ 24 VDC |
| Installation Temperatures | 14°F to 122°F (-10°C to50°C) |
| Operating Humidity Range | 10% to 93% Relative Humidity Non-condensing |
| Fixed Temperature Rating | 135°F (57°C) |
| Rate of Rise Detection | Responds to greater than 15°F/min |
| Height | 42 mm installed in Base |
| Diameter | 64 mm |

## General Description:

The detector is intelligent sensors that utilize a state-of-the-art thermistor sensing circuit for fast response. These sensors are designed to provide open area protection with 50 foot spacing capability. The detector is a rate of rise temperature sensor with 135°F fixed temperature alarm. Inside MCU's EEPROM keep the sensor's address that can be set by a portable Address setting device. Two LEDs on each sensor light to provide 360° visibility of the sensor indication. The LEDs can be latched ON by code command from the panel for an alarm indication. The LEDs can also be unlatched to the normal condition by code command. The detector requires compatible addressable communications to function properly. Connect these sensors to listed-compatible control panels only.



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# Addressable

## Mini multi smoke & heat detector

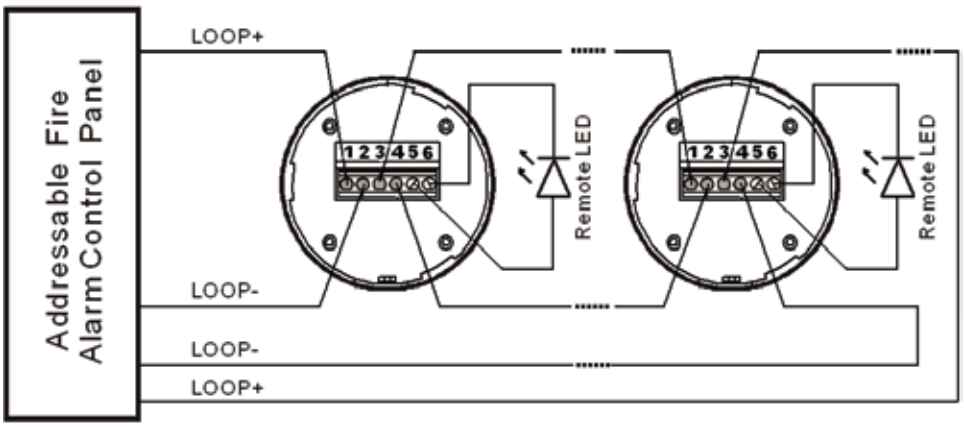
**Model Number:** HST-HD203Mini

## Specifications

| | |
|---|---|
| Operating Voltage Range | 15 to 28 VDC |
| Standby Current | 650μA @ 24 VDC (one communication every 5 seconds with LED blink enabled) |
| Maximum Alarm Current (LED on) | 5 mA @ 24 VDC |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | 14°F to 122°F (-10°C to50°C) |
| Smoke Sensitivity | 0.15-0.30dB/m |
| Fixed Temperature Rating | 135°F (57°C) |
| Rate of Rise Detection | Responds to greater than 15°F/min |
| Height | 42 mm installed in Base |
| Diameter | 64 mm |

## General Description:

The detector is plug-in type photoelectronic smoke and heat sensors with addressable analog communications.The sensors transmit an analog representation of smoke density or temperature over a communication line to a control panel. Inside MCU's EEPROM keep the sensor's address that can be set by a portable Address setting device.Two LEDs on the sensor are controlled by the panel to indicate sensor status. The detector require compatible addressable communications to function properly. Connect these sensors to listed-compatible control panels only.



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# Addressable
## Call point
**Model Number:** HST-HC201

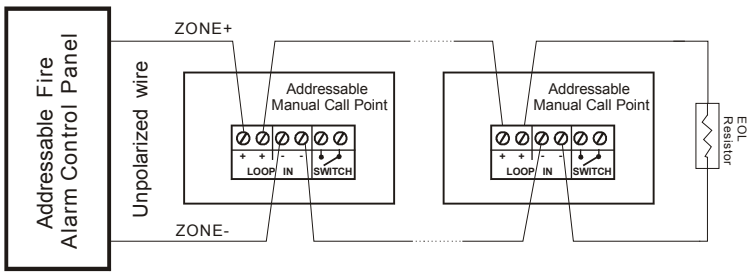

CE

## Specifications

| | |
|---|---|
| Operating Voltage Range | 28VDC Volts |
| Alarm Current | 5 mA @ 24 VDC |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | -10°C to 50°C (14°F to 122°F) |
| Dimensions | 140mm L x 105mm W x 45mm H |
| Weight | Net Weight 220g |

## General Description:

The HC201 addressable manual call point designed for addressable fire alarm system for reporting fire or emergency condition by its OPEN/PRESS. One 470 ohm resistor is used on the PCB board between Zone+ and Zone- when the switch inside is closed. So the HC201 addressable manual call point is only used with addressable fire alarm control panel, it is forbidden to be used to other system.The manual call points provide a textured finger-hold area that includes Braille text. In addition to OPEN/ PRESS text, there are arrows indicating how to operate the station, provided for non-English-speaking people. OPENING in and then PRESSING activates the normally-open alarm switch. Once latched in the down position, the word “ACTIVATED” appears at the top in bright yellow, with a portion of the handle protruding at the bottom as a visible flag.Resetting the station is simple: insert the key, twist one quarter-turn, then open the station’s front cover, causing the spring-loaded operation handle to return to its original position. The alarm switch can then be reset to its normal (non-alarm) position manually (by hand) or by closing the station’s front cover, which automatically resets the switch.



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# Addressable
## Call point
**Model Number:** HST-HC202

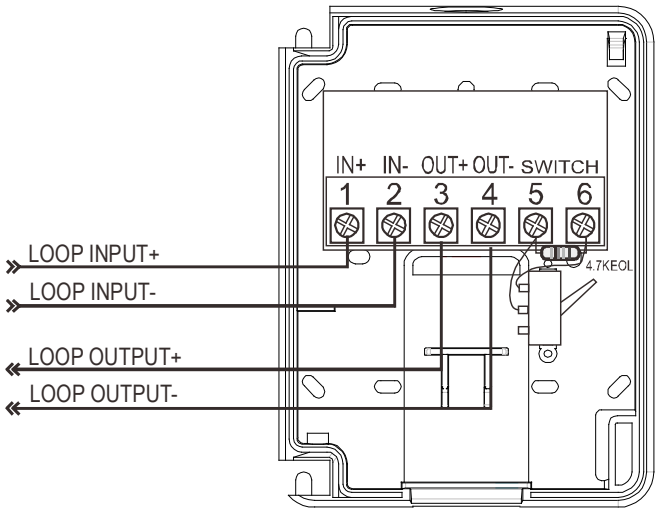

PCB

## Specifications

| | |
|---|---|
| Operating Voltage Range | 28VDC Volts |
| Alarm Current | 5 mA @ 24 VDC |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | -10°C to 50°C (14°F to 122°F) |
| Dimensions | 140mm L x 105mm W x 45mm H |
| Weight | Net Weight 220g |

## General Description:

The addressable manual call point designed for addressable fire alarm system for reporting fire or emergency condition by its PUSH IN/PULL DOWN handle latches. So the addressable manual call point is only used with addressable fire alarm control panel, it is forbidden to be used to other system.



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# Addressable

## Relay output module

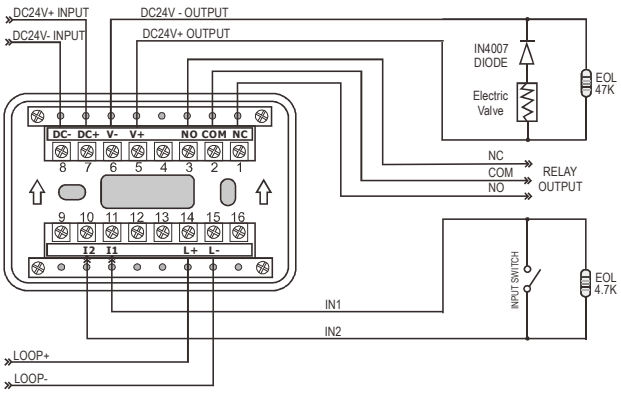
**Model Number:** HST-HM201-R

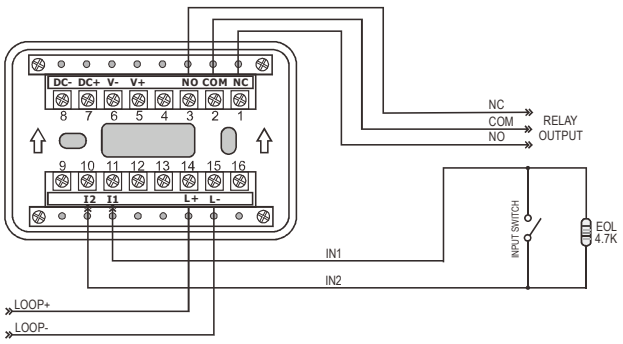
## Specifications

| | |
|---|---|
| Nominal Operating Voltage | 15 to 28 VDC |
| Standby Current | ≤1mA @ 24 VDC |
| Maximum Alarm Current (LED on) | ≤5 mA @ 24 VDC |
| Maximum(NAC) | Regulated 24VDC |
| Max Relay Contacts Current Ratings | 2A/DC24V, 1A/220VAC |
| EOL resistance of input | 4.7K Ohms |
| EOL resistance of output | 47K Ohms |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | -10°C to50°C |
| Dimension | 120 mm L x 80mm W x 43mm H |
| Weight | 185 g |

## General Description:

The Relay Output Modules are intended for use in addressable, two wire systems, where the individual address of each module is programmed in the MCU's Flash memory. This module is used to switch an external power supply, which can be a DC power supply or an audio amplifier (up to 80 VRMS), to notification appliances. It also supervises the wiring to the connected loads and reports their status to the panel as NORMAL, OPEN, or SHORT CIRCUIT.



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# Addressable

## Short circuit isolator module

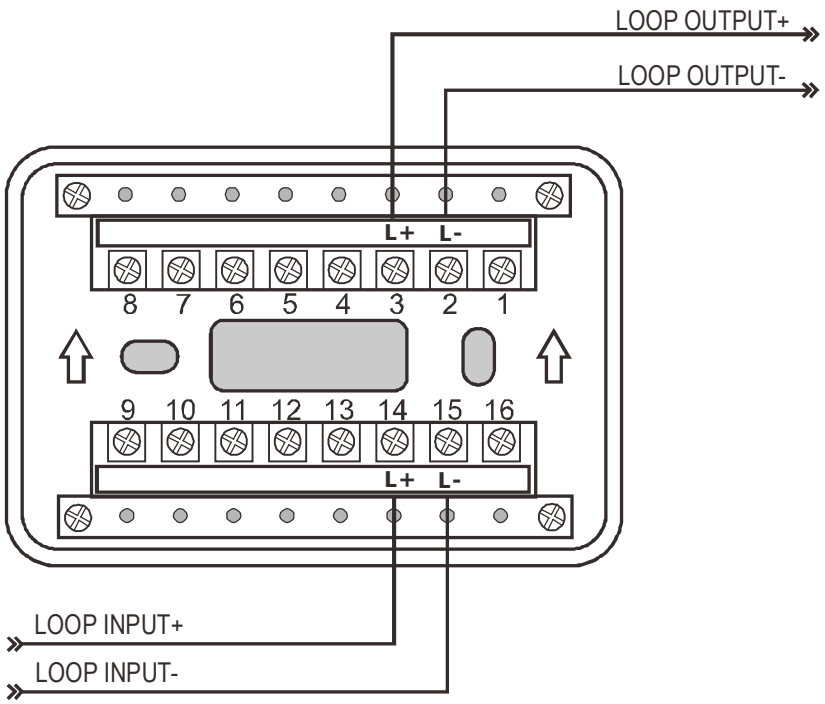
**Model Number:** HST-HM201-SC

## Specifications

| | |
|---|---|
| Nominal Operating Voltage | 15 to 28 VDC |
| Short Circuit Current Limitation | >700 mA @ 24 VDC |
| Short Loop Resistance | <50Ω |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | -10°C to50°C |
| Dimension | 120 mm L x 80mm W x 43mm H |
| Weight | 175 g |

## General Description:

The Short Circuit Isolator Modules enable part of the communications loop to continue operating when a short circuit occurs on it. An LED indicator turns on during a short circuit condition. The module will automatically restore the entire communications loop to the normal condition when the short circuit is removed.



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# Addressable

## Input module

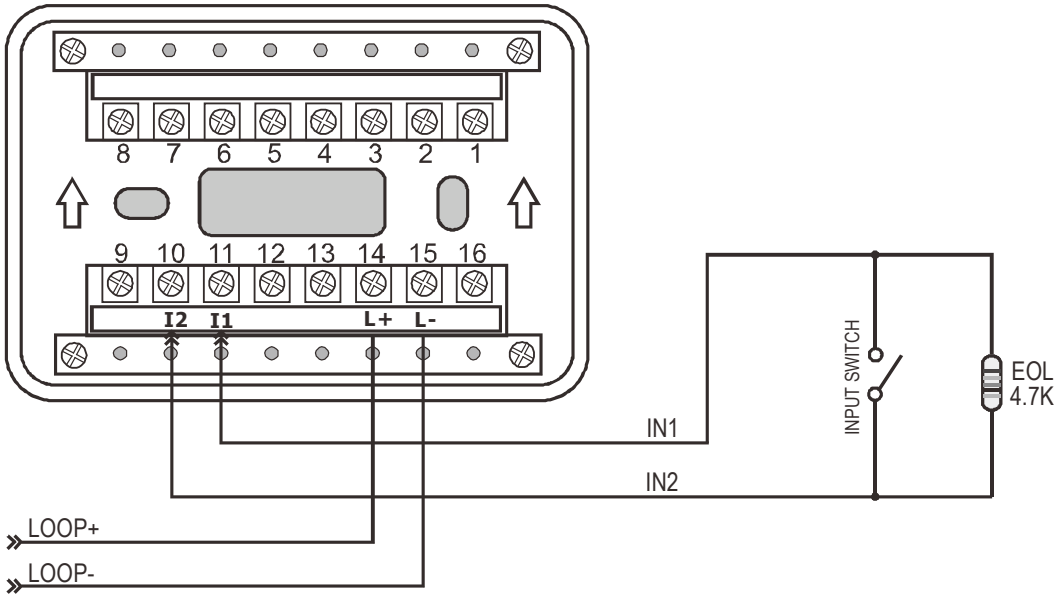
**Model Number:** HST-HM201-SW

## Specifications

| | |
|---|---|
| Nominal Operating Voltage | 15 to 28 VDC |
| Standby Current | ≤1mA @ 24 VDC |
| Maximum Alarm Current (LED on) | ≤5 mA @ 24 VDC |
| EOL resistance | 4.7K Ohms |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | -10°C to50°C |
| Dimension | 120 mm L x 80mm W x 43mm H |
| Weight | 175 g |

## General Description:

The module can be installed in a single gang junction box directly behind the monitored unit. Its small size and light weight allow it to be installed without rigid mounting. The module is intended for use in addressable, two-wire systems where the individual address of each module is writhen inside the MCU's EEPROM. It provides a two-wire initiating circuit for normally open contact fire alarm and security devices.



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# Addressable

## Sound storbe

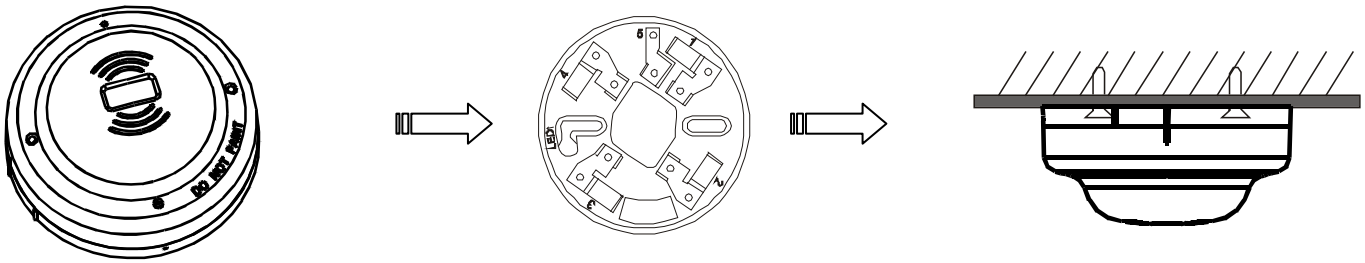
**Model Number:** HST-HS201

## Specifications

| | |
|---|---|
| Operating Voltage Range | 9 to 32 VDC Volts |
| Alarm Current | ≤50 mA @ 24 VDC |
| Strobe Flash Rate | ≤0.5S |
| Alarm Sound Intensity | Minimum 100dB |
| Operating Humidity Range | 10% to 93% Relative Humidity, Non-condensing |
| Operating Temperature Range | -10°C to 50°C (14°F to 122°F) |
| Input terminal Wire Gauge | 12 to 18 AWG |
| Height | 1.8″ (45 mm) installed in Base |
| Diameter | 4.0″ (103 mm) |
| Weight | 5.6 oz. (158 g) |

## General Description:

The Sound Strobe of notification appliances offers a wide range of Sound/strobes, for wall and ceiling applications. They are designed to be used in 24 volt DC systems. Model HS201 is an addressable loop powered addressable sounder innovatively designed to provide a range of tones and volumes with a maximum output of up to 85dB(A) (±2dB(A)) with low current consumption. The unit is designed to fit into the Standard Base (HD200)(RED). It also incorporates an auto shutdown mode* which allows the user to set a fixed time within which the sounder will operate, before automatically silencing itself, ideal for minimising noise pollution. Loop Powered Single Loop Address - addressed via the Hand Held Programmer. Variable Sound Output 70 ~ 85dB(A) (±2dB(A)) output at 1 metre. Fits HST Standard or HD200 Base. Weatherproof Kit available. 51 User-Selectable Tones (all tones EN54-3 compatible). Also available in white





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# Addressable

## Lite storbe sounder & Programmer

**Model Number:** HST-HS203


CE

## Specifications

| | |
|---|---|
| Operating Temperature | -10°C to 50°C |
| Operating Humidity | 0 to 95 RH, |
| Operating Voltage | 22VDC to 30VDC |
| Average Current | 70 mA |
| Light Output | ≥ 1.2 WS |
| Flash Rate | ≤ 2 seconds |
| Sound Level | ≥ 100dB |
| Light Life | ≥ 30000 flashes |

## General Description:

The Sound Strobe of notification appliances offers a wide range of Sound/strobes, for wall and ceiling applications, indoors and outdoors. They are designed to be used in 24 volt DC systems. HST protocal.


## HP101T HAND-HELD PROGRAMMER

It is profesional Address Programmer for HST Protocol Detector and Modules
Compact unit
Easy to use
Provides address setting and reading
Can be used on both sensors and modules
Has the diagnostic ability to display the analog value
Over 7000 address settings from one battery
HST Protcol Address setting up to 350 Address Number
9 Volt Battery
Remote Programming Cables



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