

Remote Ethernet IO Controller



inSentryTM

Make Sense

**Innovative & Comprehensive Solution
for Environmental Monitoring**

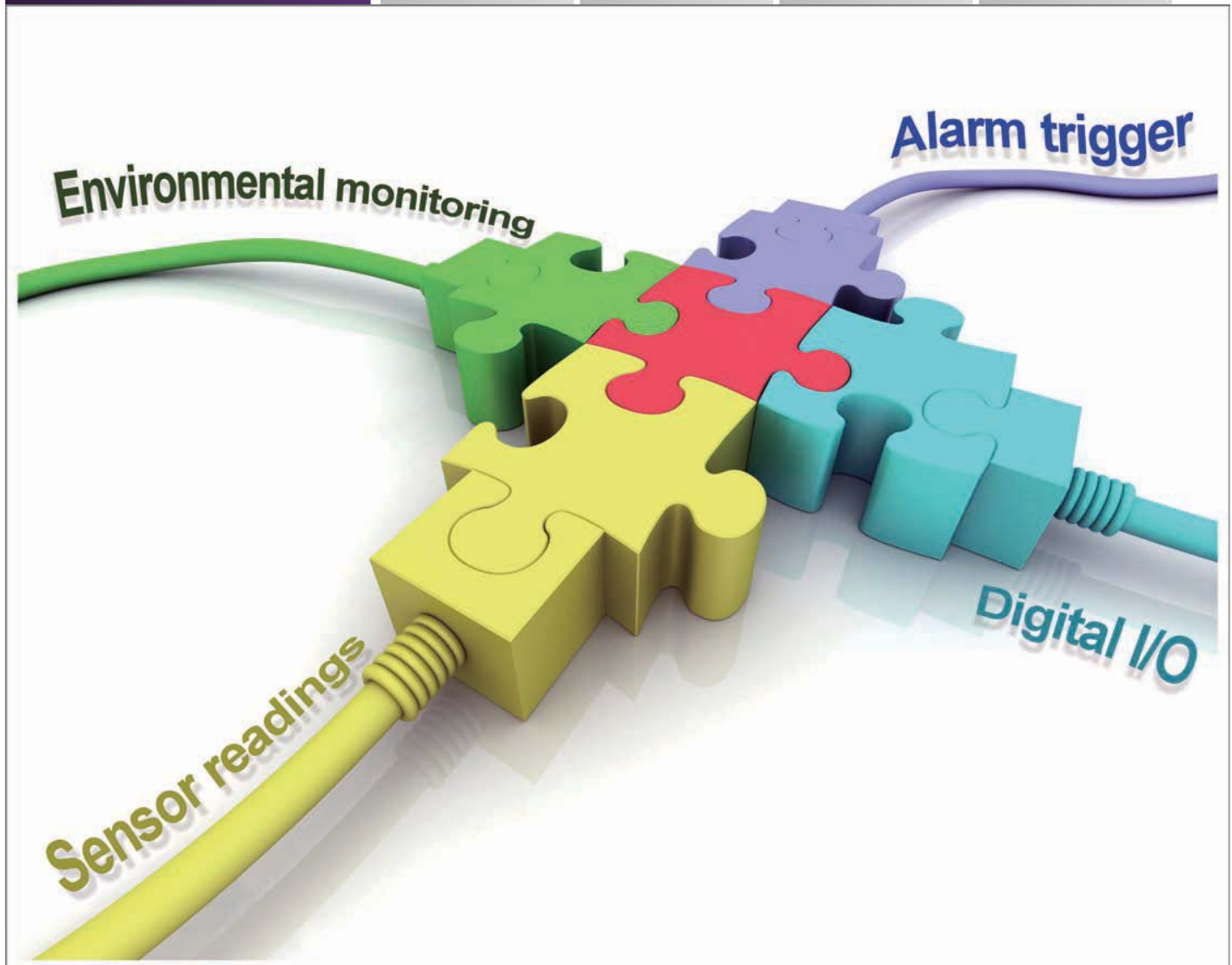
Ethernet I/O

Power Control

Network Storage

Industrial PC

Surveillance





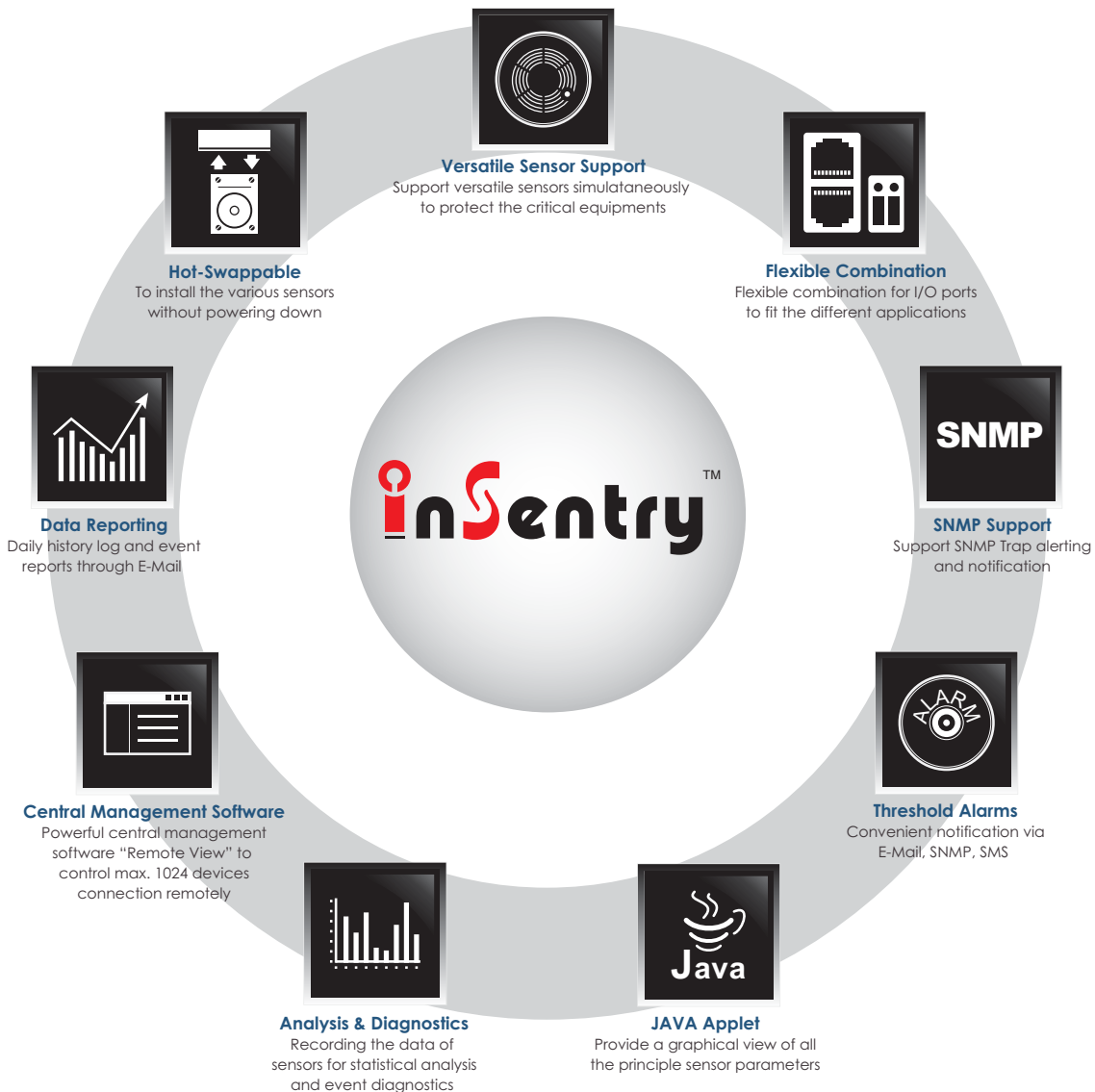
inSentry Series Introduction

➤ Nowadays, IP-based environmental monitoring devices are adopted widely, our market trend is to provide more flexible and integrated solution to response the requirement, including customizable output relays, DC voltage sensor and powerful management software...etc.

It is a trend for IT market to buy a multi-functional device to support all kinds of environmental sensors, such as temperature/humidity sensor, vibration sensor, smoke detector, water leak sensor and other such normally open/close sensors.

We develop the inSentry series products for a variety of markets. The inSentry is an IT environmental monitoring device that provides remote monitoring of temperature, humidity and other environmental conditions via free bundle management system. It is easy-to-use, SNMP enable, and monitors with configurable alarms, trap and email notification to prevent abnormal conditions or disasters in advance.

inSentry Series Design Capability for Versatile Remote Monitoring

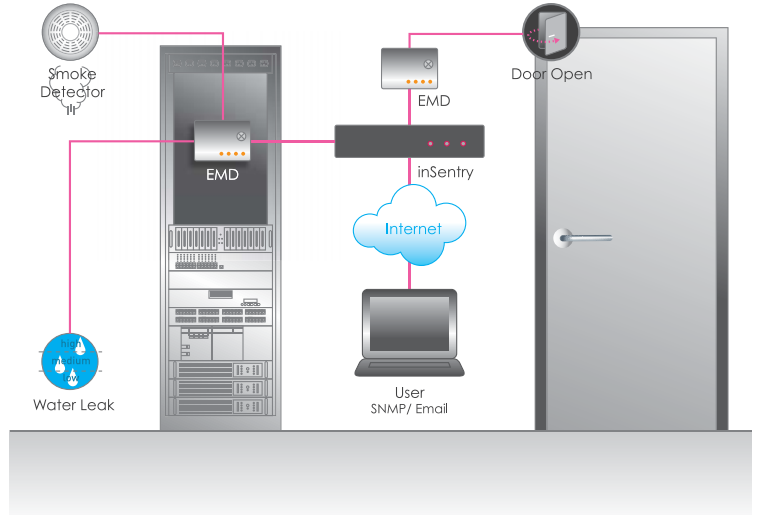
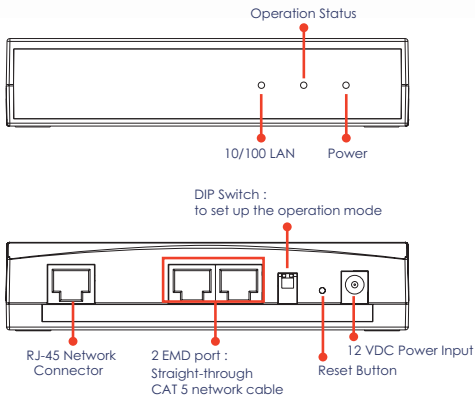




inSentry - Simple and Cost Effective



Integrated I/O Ports



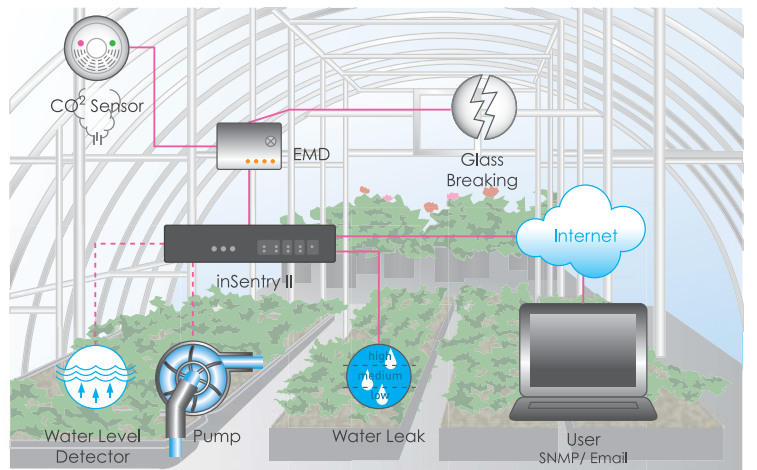
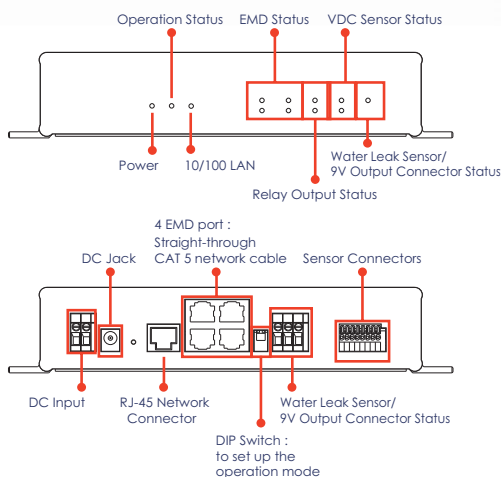
inSentry

- 2 auto-sense ports for connecting EMD simultaneously and up to 4 sensor devices input.
- Automatic events notification via E-mail and SNMP Trap.
- The graphical representation of environmental conditions (Java).

inSentry II - Basic Application



Integrated I/O Ports



inSentry II

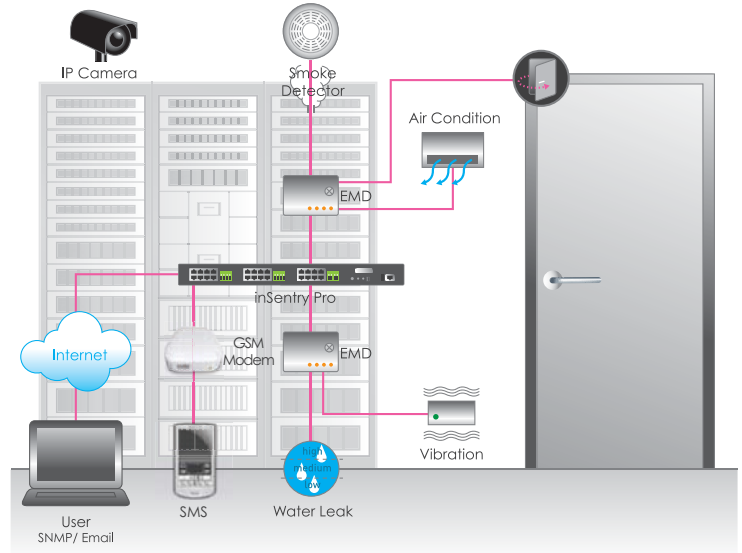
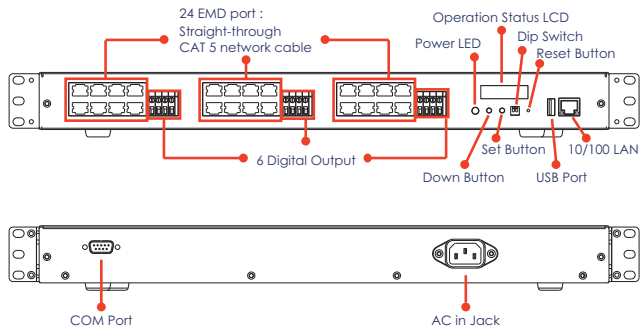
- 4 auto-sense ports for connecting EMD simultaneously and up to 8 sensor devices input.
- 2 digital outputs to trigger extended devices by events.
- Built-in 2 DC voltage sensors and water leak detector to prevent water from permeating into the equipment in advance.
- Automatic events notification via E-mail and SNMP Trap.



inSentry Pro- Intelligent Solution for your Enterprise Resources



Intergrated I/O Ports



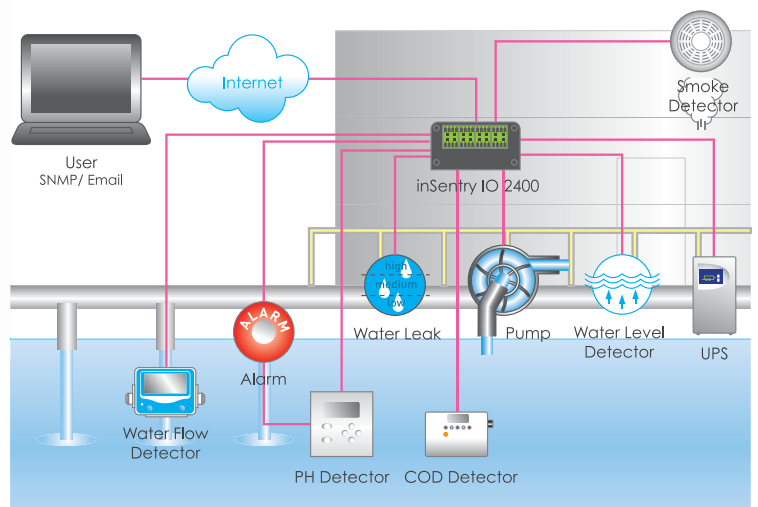
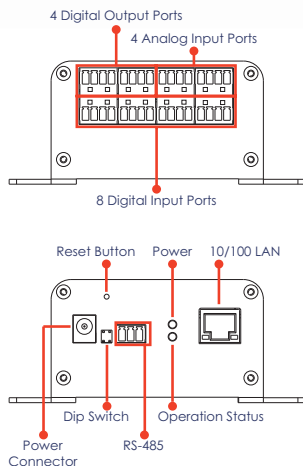
inSentry Pro

- 3 models to fit different applications
Model 1: 24 EMD ports & 6 DO ports ; Model 2: 16 EMD ports & 4 DO ports ; Model 3: 8 EMD ports & 2 DO ports
- Built-in LCD Screen for operations, USB 2.0 Port for Keypad/Keyboard and DB-9 port for GSM/GPRS modem.
- Automatic events notification via E-mail and SNMP Trap and SMS.

inSentry IO 2400- 8 DI & 4 DO & 4 AI Ports



Intergrated I/O Ports



inSentry IO 2400

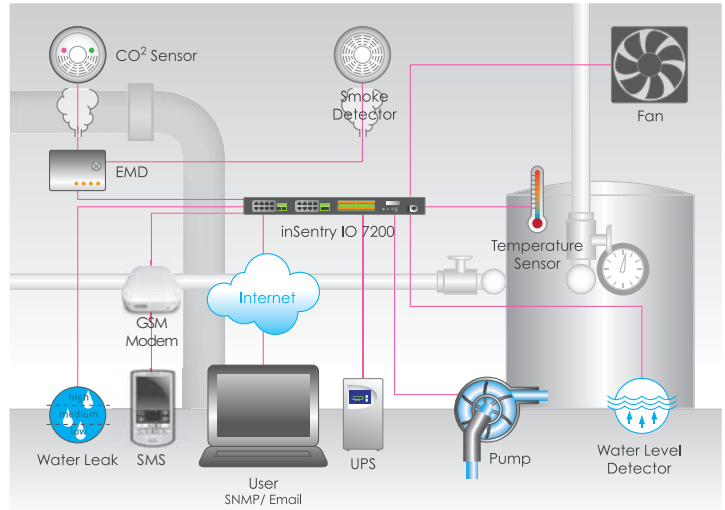
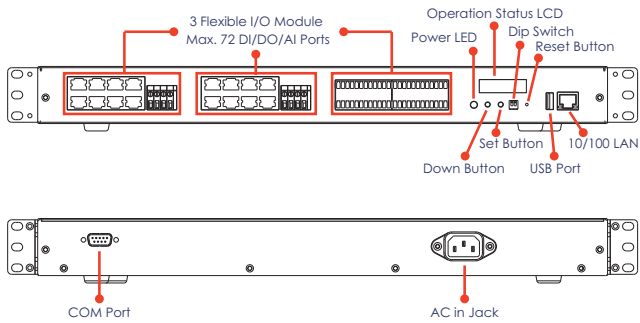
- Supports 8 digital-inputs for normal open/close sensors.
- Supports 4 digital-outputs to trigger extended devices by events.
- Supports 4 DC voltage/current configurable sensors.
- Automatic events notification via E-mail and SNMP Trap.



inSentry IO 7200- Flexible Combination for Different Applications



Integrated I/O Ports



inSentry IO 7200

- 3 Models to fit different applications
Model 1: 72 I/O ports ; Model 2: 16 EMD ports & 24 I/O ports ; Model 3: 8 EMD ports & 48 I/O ports
- Built-in LCD Screen for operations, USB 2.0 Port for Keypad/Keyboard and DB-9 port for GSM/GPRS modem.
- Automatic events notification via E-mail and SNMP Trap and SMS.

Comparison Chart of inSentry Series

| | inSentry | inSentry II | inSentry Pro | inSentry IO 7200 | inSentry IO 2400 |
|---|---------------|-------------|--------------|----------------------|------------------|
| Environmental Monitoring | Yes (Via EMD) | | | Yes (Via EMD/Sensor) | Yes (Via Sensor) |
| Turn On/Off individual DO by alarm trigger | No | Yes | | | |
| Disable Alarm Schedule | Yes | | | | No |
| Remote management and configuration through web browser, NMS and Telnet | Yes | | | | |
| Detailed data-logging for statistical analysis and diagnostics | Yes | | | | |
| Event notification through SNMP trap or Email alerts | Yes | | | | |
| Event notification through SMS | No | Yes | | | No |
| Daily history report through Email | Yes | | | | |
| Support SSH V1 protocol | Yes | | | | |
| Java Monitor/Log | Yes | | | | No |
| Address-specific IP security masks to prevent unauthorized access | Yes | | | | |



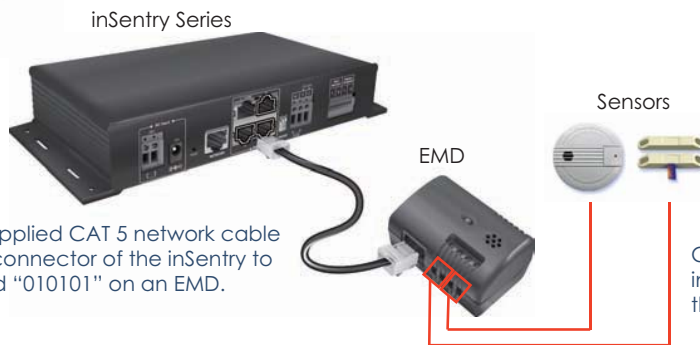
inSentry Series Accessories

EMD (Environmental Monitoring Device)



The EMD (Environmental Monitoring Device) is a connectivity device that allows you to remotely monitor the temperature, humidity, and status of 2 digital input sensors. It's connected to the inSentry series and enables monitoring or notification of alarms via standard management software. When the EMD is plugged into the inSentry series communication port, the temperature and humidity readings are automatically displayed on the management software "Comprehensive View" page. It displays the status of the external contact devices on the same page.


Installation



Connect the supplied CAT 5 network cable from any RJ45 connector of the inSentry to the port labeled "010101" on an EMD.

Connect external contact closure inputs to the screw terminals on the EMD.

Specification

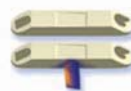
| | |
|------------------------|--|
| Temperature Monitoring | Measures temperatures between 0°C~80°C with an accuracy of $\pm 1^\circ\text{C}$ |
| Humidity Monitoring | Measures relative humidity between 10%~90% RH with an accuracy of $\pm 3\%$ |
| LED Display | Power / Status |
| Digital Input | 2 Inputs (normally-open or closed) |
| Dimensions | 57.4(W) x 37.6(D) x 29.2(H) mm |
| Weight | approx. 35g |
| EMD Measurement Cable |  <ul style="list-style-type: none"> ■ Cable Material Cable : UL2464 28AWG*4PAIRS+AEB Plug : 8p8c 50U*2pcs ■ Dimensions/Weight 2m / 78.7 inch. approx. 80g |

Water Leak Sensor



The water leak sensor is a device which connects with EMD. Through inSentry, user can monitor it if there is water leaking. While water permeates into detective line, the conductivity enhances the intensity of electric current and the alarm will be triggered.

Door Open Sensor



The door open sensor is a device which connects with EMD. Through inSentry, user can monitor it if the door or window is open. However it can be disabled if they are in a strong, external magnetic field. If a door open sensor is dropped onto a hard surface from more than 30cm or subject to shock of more than 30G, it is possible to cause the characteristics to change (Pull-in, Drop-out, etc.).

Vibration Sensor



The vibration sensor is a device which connects with EMD. Through inSentry, user can monitor it if there is any situation of vibration. It is designed for protecting against forced entry by hammer, saw, crowbar, etc. It is used in closed-circuit alarm systems and will initiate an alarm when a vibration of considerable force strikes the protected surface.











Smoke Detector



This smoke detector is not warranted to protect lives or property from fire. In addition, it is possible for the smoke detector to fail at any time. This type of smoke detector is powered by 110VAC/220VAC and a 9-volt battery back-up source. AC/DC smoke detectors offer added protection in the event of a power failure or a drained battery.



inSentry Series Introduction

| |   |   |   |   |   |
|------------------------------|--|--|---|--|---|
| EMD Port | 2 | 4 | 24 / 16 / 8 | 0 / 16 / 8 | — |
| I/O Port | — | <ul style="list-style-type: none"> 9V output : 1 port DC sensor input : 2 ports (0~60 VDC) DO : 2 ports (Max. 24VDC, 1A) | <ul style="list-style-type: none"> Model 1 : 24 EMD & 6 DO ports Model 2 : 16 EMD & 4 DO ports Model 3 : 8 EMD & 2 DO ports (DO rating: Max. 48 VDC, 2A) | <ul style="list-style-type: none"> Model 1 : 72 I/O ports Model 2 : 16 EMD & 24 I/O ports Model 3 : 8 EMD & 48 I/O ports (DO rating: Max. 48 VDC, 2A) | <ul style="list-style-type: none"> DI : 8 ports DO : 4 ports AI : 4 ports RS-485 (DO rating: Max. 24 VDC, 1A AI rating: 0~15 VDC, 4~20 mA) |
| Indicator | <ul style="list-style-type: none"> LED: Power, Status, LAN 10/100 Link | <ul style="list-style-type: none"> LED: Power, Status, LAN 10/100 Link, EMD, Relay output, DC voltage sensor, Water leak detector / 9V output | <ul style="list-style-type: none"> LED: Power, Status, LAN 10/100 Link LCD: System information | — | <ul style="list-style-type: none"> LED: Power, Status, LAN 10/100 Link |
| Miscellaneous | Real-Time-Clock, Reset button | | | | Reset button |
| Power Supply | 12V DC | | 100~240V AC | | 12V DC |
| Power Consumption | 3 Watts | 30 Watts (Max.) | 40 Watts (Max.) | | 30 Watts (Max.) |
| LAN Interface | Auto-sense 10/100Mbps Fast Ethernet | | | | |
| Network Protocol | TCP/IP, UDP/IP, SNMP V1, SNTIP, DNS, DHCP, SMTP,HTTP, HTTPs, Telnet, TFTP, SSH V1 | | | | |
| Firmware Upgrade | <ul style="list-style-type: none"> Network Upgrade Serial Upgrade (for recovery use) | | | | |
| System Security | IP-based filtering and password protection for operation and administration | | | | |
| Operating Environment | <ul style="list-style-type: none"> Temperature: 0°C ~ 40°C Humidity: 10% ~ 80% non-condensed | | | | <ul style="list-style-type: none"> Temperature: 0°C ~ 55°C Humidity: 10% ~ 80% non-condensed |
| Dimensions | 138 x 87 x 30 mm | 215 x 130 x 41 mm | 442 x 250 x 44.3 mm | | 86 x 128 x 45 mm |
| Weight | approx. 180g | approx. 800g | approx. 6kg | | approx. 400g |
| Certification | RoHS, CE, FCC | | | | |
| Ordering Information | | | | | |
| Accessories | EMD x 1 | EMD x 2 | EMD x 8 | — | — |
| Software | Free bundle management software | | | | |
| Optional Devices | <ul style="list-style-type: none"> Water leak Sensor Vibration Sensor Smoke Detector Door Open Sensor | | | | |



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