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地址：深圳市福田区福华路福庆街鸿图大厦 1602 室

电话：0755-83607652 83376489 83376549 83370250 83370251 82500323

传真：0755-83376182 (0) 13902971329 MSN: [SUNS888@hotmail.com](mailto:SUNS888@hotmail.com)

邮编：518033 E-mail: [szss20@163.com](mailto:szss20@163.com) QQ: 195847376

深圳赛格展销部：深圳华强北路赛格电子市场 2583 号 电话：0755-83665529

技术支持：0755-83394033 13501568376

# ***GALILEO line***

## ***Cabinet rack for gas detection***

### ***DESCRIPTION***



The cabinet for gas detection of the GALILEO line gathers all the characteristics required for the control and monitoring of explosive and toxic gases, in a compact and reliable system able of good performances.

*The system is composed of:*

A cabinet made in pressed and bent sheet-steel, of 1.5 mm in thickness and with 600 x 600 x 1800 mm of maximum dimensions.

It is painted with a coat of antirust paint and an epoxy gray paint RAL 7032 (other colors on request).

The cabinet has a black painted base to be fixed on the floor and a frontal transparent door provided with a block handle. The window is made of transparent acrylic.

The cable entry is on the bottom, through the sheet-steel lock removal, or by the application of fairleads.

A copper bar is mounted on the bottom of the cabinet. It is intended for the earthing of cable screens in entry and exit from the cabinet itself. A galvanized iron gripper is also placed on the bottom for the cables fixing.

The electric connections inside the cabinet are made of fireproof connectors of appropriate section. Conductors and cables are gathered in gray fireproof PVC ducts.

The gas leakage detection system is based on the GALILEO MULTISCAN IDI system, which is planned for the plants maximum expandability, with a special attention to installation costs and times. In fact, a RS485 serial line makes the detectors connection with a duplex cable that links up to 30 detectors per line.

The system may support up to 90 (120) Smart IDI detectors directly connected with the system, placed on three RS485 serial lines and on one or more serial lines on which up to 30 optic or acoustic signal boxes may be connected. These boxes can be associated to the detectors by subdividing them into zones. For further information see the SENSITRON flyer DP402.

The system may support up to 128 fully programmable exits, which allow the plant conditions interface with the field, if associated to relays.

A serial line RS232C for the connection with a Personal Computer is available. It allows the remote programming with a remarkable time saving.

The same serial line may connect the system to a plant supervisor, who allows the creation of graphic maps and the remote plant management, with adequate software.

The system may start up a printer for the creation of event history printouts or the printing of field alarms in real time, through the Centronics parallel door in terminal board.

If necessary, the system may be completed with a card based fire control unit, which is separate from the gas control unit, with zones individually identified at sight and with an alarm summary.

Using the same power supply section, the cabinet is planned to mount the others SENSITRON gas detection systems such as GALILEO MULTISCAN LIGHT and PARKING or Rack 19" with PCM62/616 card.

### **LIST AND TECHNICAL CHARACTERISTICS OF THE EQUIPMENT COMPOSING THE SYSTEM**

- Continuity group for power feeding, in defect of the main power line, for all the gas and/or fire detection plant equipment. It is completed with a lead sealed battery.
- 220Vac 50Hz single-phase entry. 220Vac 50Hz 4A single-phase exit.
- "GALILEO IDI" gas detection system at single identification. Possibility to connect up to 90 reading points on 4 signals. Graphic display for the supervision of the connected detectors. Events memory management. Possibility to connect a parallel printer for events and alarms local printing. Possibility to be connected to a supervisor for the plant mapping.
- Fire control unit divided into zones in Rack 19" (optional).
- Automatic dialer for remote forwarding of alarms or breakdowns.
- Exits with DPDT relay with contacts free of voltage, mounted inside the cabinet, for the alarm history. 220Vac 5 A contact.
- Power supply for the control unit and gas detectors mounted on the field. Primary single-phase 220Vac 50Hz.

*The following equipment will be connected during the installation to the GALILEO line cabinet:*

- "SMART 2 IDI" detectors for explosive and/or toxic gases.
- Acoustic and visual signal units in Exd deflagrable-proof version composed of: 100W lamp with red cap, 106 dB pneumatic acoustic horn, silence push-button, 220Vac 50Hz lamp.
- Indoor horn, 92 dB, 220V 50Hz.

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here below are some equipment connectable to the GALILEO line cabinet during the installation: gas detectors, acoustic and visual alarm units in their Exd anti-deflagrable version.



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In order to improve its products, **Sensitron S.r.l.** and his suppliers reserve the right to modify the technical or aesthetic characteristics in any moment and without notice.



For any further information, please contact:

<b>Sensitron S.r.l.</b>	<b>Tel: 02 935.48.155</b> <b>Fax: 02 935.48.089</b>
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