



## MultiSens

Diffusion Multigas detector for up to four gases simultaneous measurement of up to four gases, including hydrogen sulfide, carbon monoxide, oxygen and flammable gases (LEL).

### 01 DESCRIPTION

MultiSens up to four-gas portable detector provides friendly use and flexibility for monitoring gases in the plant or in confined spaces.

The MultiSens can monitor up to four gases simultaneously including hydrogen sulfide, carbon monoxide, oxygen and flammables (LEL). Through the different notification alarms, it will alert you to the presence of any hazard.

The measurement of combustible gases can be done with a catalytic sensor or with an infrared sensor that will provide a range of up to 60 days in continuous operation without recharging the batteries. It also has the ability to block the device from shutting down so that the user does not use it inadvertently without the equipment running.

The optional Docking Station is available with capacity for up to 4 devices simultaneously, allowing to perform Bump Test and Calibrations. The multiple Docking Station reduces waiting times for verification, adjusting the equipment automatically in case of not passing the Bump Test. In addition, during the verification process, the data is downloaded from the equipment's datalog, in order to have greater control over the monitoring of security policies.

### 02 KEY FEATURES

- Compact, robust and reliable
- ATEX Zone 0 and IECEx Certification
- Easy operation with a single button
- Optical, acoustic and vibration alarm
- Verification and simple adjustment with the optional Docking Station
- Displays TWA and STEL values as well as exposure values
- Adjustable alarm levels through the Sensotran IR Link
- More than two months of data storage capacity

### 03 TECHNICAL SPECIFICATIONS

|                               |  |                 |                 |                  |
|-------------------------------|--|-----------------|-----------------|------------------|
| Gas                           | Combustible  | O <sub>2</sub>  | CO              | H <sub>2</sub> S |
| Sensor Type                   | Catalytic (MultiSens-P)<br>NDIR (MultiSens -N)   | Electrochemical | Electrochemical | Electrochemical  |
| Range                         | 0-100 % LEL  | 0-30 % vol      | 0-500 ppm       | 0-100 ppm        |
| Estimated Life                | > 5 years  | 3 years         | 3 years         | > 2 years        |
| Response Time t <sub>90</sub> | < 15 sec   | < 15 sec        | < 30 sec        | < 30 sec         |
| Resolution                    | 1% LEL   | 0.1 vol         | 1 ppm           | 0.1 ppm          |
| Accuracy                      | ± 3% Full Scale  |                 |                 |                  |
| Measuring Type                | Diffusion / Pumped (manual pump)   |                 |                 |                  |
| Control Button                | One  |                 |                 |                  |
| Display                       | Display LCD backlight, Indicator LED   |                 |                 |                  |
| Alarms                        | Visual: LCD alarm display, LCD Backlight, Indicator LED, Audible: buzzer (90 dB at 10 cm), Vibration |                 |                 |                  |
| Event log                     | Event Log : 30EA, Calibration Log: 30EA, Bump Log: 30EA<br>Data Log 2 months or more                 |                 |                 |                  |
| Mounitng Type                 | Alligator clip   |                 |                 |                  |
| Operating Temperature         | -20°C to +50°C   |                 |                 |                  |
| Operating Humidity            | 10 to 95% RH (no-condensing)   |                 |                 |                  |
| Battery                       | Lithium-ion 3.7 V, 2000 mAh  |                 |                 |                  |
| Battery Life Time             | (MultiSens-P: 24 hours, MultiSens-N: 2 months)   |                 |                 |                  |
| Case                          | Rubberized PC cases  |                 |                 |                  |
| Dimensions                    | 60 x 40 x 118 mm   |                 |                 |                  |
| Weight                        | 240 g  |                 |                 |                  |
| Apporval                      | MULTISENS-P : II 1G Ex da ia IIC T4 Ga, IP 67<br>MULTISENS-N : II 1G Ex ia IIC T4 Ga, IP 67          |                 |                 |                  |

## 04 APPLICATIONS

- Oil & Gas
- Shut Downs
- Fuel storage parks
- Water treatment plants
- Mining industry
- Construction
- Homeland Security and First Responders
- Food industry
- Emergency response
- Environmental
- Industrial Safety

## 05 ACCESSORIES



**Docking-Station**  
Adjust and calibration station



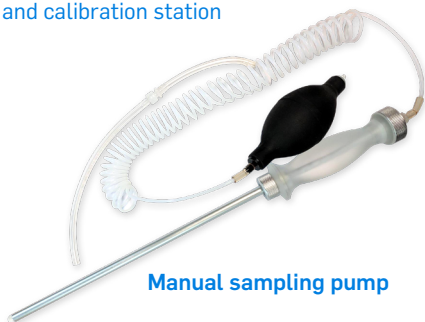
**Multi Cradle Charger**



**Sensotran IR Link**  
Infrared port



**Car Charger Adaptor**



**Manual sampling pump**



**Multiadaptor**

## 06 ORDERING INFORMATION

| Ref       | Gas  | Range     | Sensor                      |
|-----------|--|-----------|-----------------------------|
| MS-002-00 | LEL, O <sub>2</sub>                        | 0-30% vol | Pellistor / Electrochemical |
| MS-002-10 | LEL, O <sub>2</sub>                        | 0-500 ppm | Infrared / Electrochemical  |
| MS-004-00 | LEL, O <sub>2</sub> , CO, H <sub>2</sub> S | 0-100 ppm | Pellistor / Electrochemical |
| MS-004-10 | LEL, O <sub>2</sub> , CO, H <sub>2</sub> S | 0-50 ppm  | Infrared / Electrochemical  |

### Accessories

|           |  |
|-----------|--|
| MS-010-00 | Docking station up to 4 MultiSens            |
| MS-201-00 | Car charger adaptor                          |
| MS-202-00 | Multiadaptor                                 |
| MS-203-00 | Multi cradle                                 |
| MS-315-05 | Manual sampling pump                         |
| CS-100-00 | Sensotran IR Link (for ClipSens & MultiSens) |