

## % LEL 4-20 mA transmitter



**Gas Detector for Continuous Monitoring**



The Explorer **LEL** is a permanently mounted (fixed) catalytic bead combustible gas transmitter that operates from 12 to 30 VDC power source and provides a signal output (4-20mA) in the range of 0 -100%LEL combustible gas. The microprocessor-based circuit is housed in an explosion-proof enclosure.

**ATEX Approved**

**Easy to calibrate**

**Internal Display**

### Applications

- Waste water treatment plants
- Petroleum and natural gas fields
- Marine and off-shore oil wells
- Refineries and petrochemical plants
- Pulp and paper plants
- Chemical plants
- Power plants
- Steel mills

### HOW TO ORDER

<b>102110</b>	% LEL - EEX d IIC T6 <b>12 Vcc</b>
<b>102112</b>	% LEL - EEX d IIC T6 <b>24 Vcc</b>
<b>102111</b>	% LEL - EEX d IIC T6 <b>24 Vcc w/display</b>
<b>102150</b>	% LEL - EEX d IIC T6 <i>poison-resistant</i> <b>12 Vcc</b>
<b>102152</b>	% LEL - EEX d IIC T6 <i>poison-resistant</i> <b>24 Vcc</b>
<b>102154</b>	% LEL - EEX d IIC T6 <i>poison-resistant</i> <b>24 Vcc w/display</b>
<b>102153</b>	% VOL <i>Thermoconductibility</i> EEX d IIC T6 <b>24Vcc</b>

**RECOM INDUSTRIALE srl**

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## TECHINICAL DETAILS

<b>Range</b>	0 ÷ 100 % LEL
<b>Sensor</b>	catalytic oxidation principle
<b>Sensibility</b>	1%
<b>Linearity</b>	100%
<b>Output</b>	4/20 mA
<b>Power supply</b>	12 Vcc or 24 Vcc
<b>Operating Temperature</b>	- 20° ÷ + 55° C
<b>IP</b>	IP 6X
<b>Response time</b>	T 90 < 25 sec
<b>Wiring type</b>	3 wires
<b>Sampling</b>	Diffusion
<b>Display</b>	Internal 7-segmenti, 4-digit LCD
<b>Approvals</b>	ISSeP04ATEX036 - II 2GD - EEx d IIC T6 - IP 6X - T85°C - CE DNV (Det Norske Veritas) n° A8575 R.I.Na (Registro Navale Italiano)



## COMPATIBLE WITH :

### Control Units



**GasScreen**

The **Explorer Gas Screen 160** allows the continuous monitoring of n° 16 channels 4-20mA and 256s points RS485 useable for combustible gases detectors (% LEL and/or VOL), oxygen (% O2) and toxic (ppm) gases. The calibration, the configuration of the parameters and the sensors setting, is quick and easy via the multi-colour touch screen display.



**Explorer 4**

**Explorer 4** is a Multichannel Control Unit in a rack module, with four acquisition channels. Designed for a continuous monitoring of dangerous gases. The rack module assures a very easy installation in industrial cabinets. Available racks for 8 or 16 channels.



**Explorer BOX 4**

**Explorer BOX 4** is a Multi-channel (up to 4 channels) microprocessor Control Unit gas detection system for Flammable, Oxygen and Toxic gases. Designed for continuous monitoring and alarm control. Complete with wall mounting plate and case IP 65, as well as a universal power supply of 110/220Vac. The display shows for each channel the gas concentration and its unit.



**Explorer BOX 2**

**Explorer Box 2 CH** allows the continuous monitoring of 2 channels 4-20mA useable for detectors of combustible gases (% LEL and/or VOL), oxygen (% O2), toxic (ppm) gases. The calibration, the configuration of the parameters and the sensors setting, is quick and easy via a multi-colour touch screen display.

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