

## EXPLORER 4

### Rack Multi Channel Control Unit



**Explorer 4** is a Multichannel Control Unit in a rack module, with 4 (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. Alphanumeric display with 32 positions, shows the gas concentration (or Input measure) and its unit 3 Multifunction keys for configuration and Led lights for alarms and fault. Each channels is independent and has own led lights alarms, 3-output relay and 1 output relay for Fault. The configuration is completed with three keys located on the front panel. The Unit has the transmitter/sensor power supply with 2 or 3 wires technology.

### Applications

- **Output relay for each Channel**
- **RACK Mounting**
- **Easy to install**
- 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

#### RECOM INDUSTRIALE srl

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## TECHINICAL DETAILS

<b>Case</b>	Rack for 4 - 8 - 16 channels and wall mounting
<b>Size</b>	(rack 4 channels): width 105mm (21U), height 132,5mm (3HE) (supplier): width 35mm (7U), height 132,5mm (3HE) 1,7kg.
<b>Display</b>	LCD 2x16 digit
<b>Detection range</b>	%, ppm, and other parameters with firmware (8 bit, 256 liv.)
<b>Power supply</b>	18 - 28 VDC/110 - 220 VAC with transformer
<b>Power consumption</b>	5 - 25 W
<b>No. of channels</b>	1 - 4 working SW via 232 from PC (1,2,3,4,)
<b>Alarms</b>	3 levels, from 0 to 100% f.s. Fault condition alarm for disconnected sensor 3 Relais for each channel
<b>Analog input signals</b>	2 for each channel (0 - 10 V / 4-20mA)
<b>Digital input signal</b>	connector RS 232 to BUS for connection I/O to PC
<b>Optical visualizations</b>	4 LED for each channel (1 fault and 3 alarm levels) + 1 LED for power Audible alarm 1 buzzer activated in case of alarm - Relays 1 for general alarm and 1 for fault, common to the 4 channels NC and NO
<b>Audible alarm</b>	1 buzzer activated in case of alarm
<b>Analog output</b>	0 - 10 V, protected
<b>Sensor power</b>	13,5 V / 50mA
<b>Operative temperature</b>	-20°C to + 55°C
<b>Humidity</b>	0% to 95% relative humidity (non-condensing)
<b>Output for recharging</b>	13,8 V / 100 mA for emergency battery 12V / 1,2 Ah
<b>Battery</b>	(optional)
<b>Programmeable parameters</b>	Languages; Gain,offset and full scale adjustment for each channel; adjustment of 3 alarm levels for each channel; adjustment of the average of the reading time

## HOW TO ORDER

- 100410** Explorer M/C 4 channels (RINA Cert.) - SMD tech.
- 101020** Power supply card
- 101100** Rack 4U
- 101200** Rack 8U for two Explorer 140,00 €
- 101300** Rack 16U for four Explorer 186,00 €
- 100100** Custom wall mounting controller Explorer

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## COMPATIBLE WITH :

### Transmitters



#### GasPoint

The **Gas Point** is an economical, microprocessor-based gas detector for stand alone continuous monitoring of toxic gases, oxygen or flammable gases. Non-intrusive calibration and maintenance is performed using a magnetic wand to access the software through the casing window - no need to open the casing (and obtain special area permits) to perform routine calibrations.



#### EC & % LEL Transmitters

These transmitters allow the continuous monitoring in Eexd areas for flammable gases (%LEL), Oxygen (% O2), and toxic gases (ppm). Also available with internal display. Aluminium ATEX case.

Approvals ISSeP04ATEX036  
 ATEX II 2GD - EEx d IIC T6 - IP 6X - T85°C  
 Shipping approvals DNV (Det Norske Veritas) n° A8575



#### ADVENTURE

Electrochemical gas sensor or catalytic gas sensor  
 Range: 0-1000 PPM for CO - 0-100% LEL for combustible gas  
 4~20mA signal output is compatible with all 4~20mA control systems  
 RS485 compatible  
 Protection degree: IP65  
 Working voltage: DC24V±25%  
 Relay output of high-alarm and low-alarm