

## “EXPLORER M/C”

### Multi Channel Sensor Control Unit

Modular system for the measuring and monitoring of Combustible, Oxygen and Toxic gases



Multi-channel microprocessor controlled gas detection system. Programming of several parameters (gain, offset, full scale, alarm levels (3), fault of the sensors, etc.) makes it possible to check any measurement detectable with sensors 0-10 or 4-20mA. The LCD display shows in real time and simultaneously the gas concentrations or the value of the parameters requested of the channels. In programming mode, the LCD shows the functions of the key pads by a menu in 6 languages.

**Certifications: CE - DET NORSE VERITAS (DNV-A7503) - RINA**

Quick coupling connection terminals allow easy installation and upgrading of the system by the addition of extra channels. An emergency power supply (battery) and the control of the supply voltage ensure the safe running of the system even during power interruption and inconsistent power supply.

#### TECHNICAL DATA

<b>Cases</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 (heated if ambient temperature is <0°C)
<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.
<b>Fault condition</b>	alarm for disconnected sensor
<b>Analog input signals</b>	2 for each channel (0 – 10 V / 4-20mA)
<b>Optical visualizations</b>	4 LED for each channel (1 fault and 3 alarm levels) + 1 LED for power
<b>Audible alarm</b>	1 buzzer activated in case of alarm
<b>Relays</b>	1 for general alarm and 1 for fault, common to the 4 channels NC and NO
<b>Key pads</b>	3 multifunction keys
<b>Analog output</b>	0 – 10 V, protected
<b>Sensor power</b>	13,5 V / 50mA
<b>Operatine 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>Programming</b>	Languages gain adjustment for each channel offset and full scale adjustment for each channel adjustment of 3 alarm levels for each channel adjustment of the average of the reading time

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