PRODUCT BULLETIN

November 11th 2020 PB20-11.1-0

New MX 16 controller

Dear Distributors and customers,

TELEDYNE OLDHAM SIMTRONICS is proud to announce the launch of our new MX 16 1 Channel with the 'Easy Duo' detector and controller combo.

This cost-effective package provides our latest innovative controller, the MX16, with our renowned OLCT10N gas detector to ensure a complete gas detection solution that's been designed with ease of use and installation in mind.

- O2

  Detection of anoxia in the MRI room, medical laboratories


- CO2
- CO2 detection in breweries,
- During fermentation, the yeasts transform the sugar into alcohol, releasing carbon dioxide. "In a poorly ventilated room - a cellar, a tank you enter to clean it, this can lead to unconsciousness, even death".

- In wineries, the fermentation of the must generates carbon dioxide (CO2). Since this gas is heavier than air, it tends to accumulate in cellar and in confined spaces. CO2 is dangerous because it can replace oxygen in the air, which creates a hugh risk of suffocation.

The MX16 Digital controller, it is easy to install with its wall box and allows, by its pre-configuration, to be ready to install. It is delivered with the MX16 +1 OLCT 10N O2 or CO2 version + 5m cable (4 cores, RS 485 digital communication) in its EASY DUO version
In its Analogue version, it can be delivered in O2, CO2, CH4, H2, LPG configuration.

Whatever its version, it has 3 relays (AL1, AL2 and fault), a graphic screen that allows you to read values such as:

Measure Range, gas and detector tag
Detector address
Current value with unit and detected gas
Bar graph with alarm thresholds
Detector status (OK, OFF, FAULT)
MX 16 status information

IP55 wall mounted box ease on site installation

Spécifications techniques

Model	MX 16 gas detection control panel
Dimensions (w*h*d)	265 x 266 x 96 mm (10.4 x 10.5 x 3.8 inches)
Ingress protection	IP55
Cable entries (wall- mounted version)	3 M16 cable glands, 4 to 8 mm² 2 M20 cable glands, 6 to 12 mm²
Display	LCD back-lit display + smart keys Display in grayscale mode in case of fault Bar graph with alarm threshold
Visual indicators	6 LEDs 5 LEDs for Detector status line 1 common LED for Fault condition 1 common LED for Power condition
Buttons	5 smart keys 1 audible alarm accept/reset button

Operating use

Operating temperature	-20°C to +50°C (-4°F to +122°F)
Storage temperature	-20°C to +50°C (-4°F to +122°F)
Humidity	5 to 95% RH
Power input	100-240Vca 50-60Hz (35W)
Consumption	250mA max. (without captor)

Measurement lines

Digital lines	RS-485 communication, proprietary protocol, 9600 Baud 2 twisted shielded-pair cable
Analog channels	1 (4-20mA) 0-23mA analog signal input (4 to 20mA reserved for measurement) 120 Ohm load resistance 2 or 3 core shielded cable depending on detector
Maximum current output per line	0,42A (@ 50°C) to 1A (@ 30°C) with intermal AC power

Alarms

Per channel	4 Alarm levels (Al1, Al2, Overscale, Underscale) + 1 fault Dispute doubt for explosive gases Accessible and modifiable alarm threshold Al1 and Al2, manual acknowledgment
	Configuration of thresholds as standard: • O_2 : decreasing threshold • CO_2/CH_4/GPL/H_2 : increasing threshold

Output

On-board relays	2 alarm relays + 1 fault relay (non-configurable), positiv security Dry contact relay, RCT, 5A / 250Vca – 30Vcc
Digital outputs	RS-485 Modbus RTU

Approvals

EMC	According to EN 50270:15