TracXP™
Industrial Gas Solutions
by Macurco

TracXP is the industrial products division of Macurco Gas Detection, who has been providing gas detection solutions for over 50 years. The TracXP line addresses special hazard applications including harsh industrial environments and hazardous locations with a comprehensive line of wired and wireless gas detection solutions.

TXP-C16X
16 Channel Alarm Controller

The TXP-C16X is a multi-channel control panel that provides signal conditioning, simultaneous real-time display and alarm events for up to 16 input channels. The controller modules are designed in 8 channel options allowing the TXP-C16X to be set up as an 8 to 16 channel device to meet a wide variety of applications. The backlit color display enables quick system status indication and notifications of alarm conditions. User selectable display settings offer realtime readings in numerical engineering units, bar graphs and trends. Standard communications include Ethernet with Modbus TCP Master/Slave and web server for configuration and monitoring, and two standard RS-485 serial ports allowing simultaneous Modbus Master/Slave operation. The TXP-C16X provides up to three alarm levels per channel with a "Relay Acknowledge" feature to silence audible alarms during alarm conditions. Minimum, maximum and average data can be logged and easily retrieved via SD card.

The TXP-C16X is user friendly and easily configurable for toxic and combustible critical alarm functions, as well as other 4-20 mA and Modbus® device inputs.
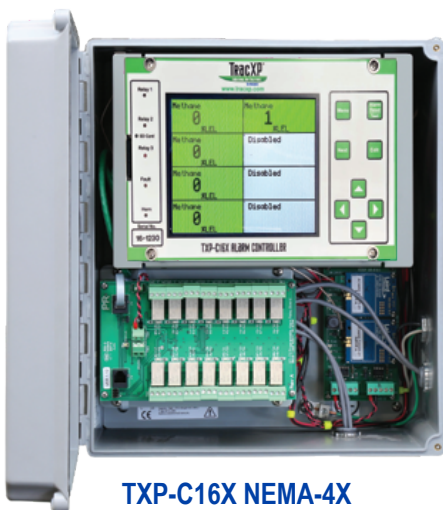
TXP-C16X NEMA-4X

TXP-C16X NEMA-4X Open View

Key Features

- Certified for Class 1, Div. 2
- NEMA 4X Enclosure
- QVGA backlit color LCD display
- 2 standard SPDT 5A alarm relays for horn & fault, plus 3 programmable alarm relays
- Ethernet port with web server
- Dual RS-485 Modbus® serial ports
- Magnetic key-pad allows non-intrusive operation
- Cal mode allows zero/span calibration for direct sensor input applications
- Security functions to lock out unauthorized users
- Easily expandable for changing needs

Applications

- Oil & Gas
- Pipeline compression
- Refining & chemical production
- Water / wastewater treatment plants
- Food & beverage facilities
- Metal manufacturing
- Pulp & paper
- Power generation
- General industry

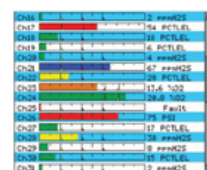# TXP-C16X

Specifications

Controller Specifications

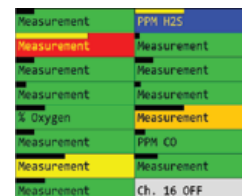|	
Housing Dimensions	16"(L) x 13.16"(W) x 8.5"(H) Compact Fiberglass
Shipping Weight	32 lbs Compact Fiberglass
Power Supply	120 - 240 VAC / 10 - 30 VDC, 150 watt primary power supply
Modbus Inputs	Dual Modbus Master/Slave RS-485 ports
Ethernet Port	Modbus TCP interface port with web server
Analog Inputs	4-20 mA inputs (8 or 16) (Optional)
Analog Outputs	4-20 mA outputs (8 or 16) (Optional)
Relays	Five 5A 30 VDC or 250 VAC resistive Form C (2 standard SPDT alarm relays for horn & fault, plus 3 programmable alarm relays)
	Discrete Relay Option Board (8) 5A 30 VDC or 250 VAC resistive Form C (Optional)
	Programmable Alarm Relay Board (8), 5A Form C Relays (Optional)
Display	Color QVGA 320 x 240 pixel graphic LCD with backlight displays bar graphs, trends and engineering units.
	Five discrete LEDs indicate alarm status for five standard alarm relays
Temperature Range	-13°F to +140°F (-25°C to +60°C)
Approvals	CE Approved
	CSA C22.2 No. 1010.1 and C22.2 No. 152 for combustible and ISA S82.02
	Class 1 Div. 2 Groups A, B, C, D (NEMA 4X)
	Class 1 Div. 1 Groups A, B, C, D (NEMA 7)

Controller Options

Part Number	Description
88-8000-0100-00	Analog Input Board (8, Analog Inputs)
88-8000-0020-00	Analog Output Board (8, Analog Outputs)
88-8000-0030-00	Programmable Alarm Relay Board (8, 5A Form C Relays)
88-8000-0040-00	Discrete Alarm Relay Board (8, 5A Form C Relays)
88-8000-0090-00	Dual Isolated RS-485 Expansion Board
88-8000-0050-00	900 MHz, Single Port Isolated RS-485 Kit
88-8000-0060-00	900 MHz, Dual Port Isolated RS-485 Kit
88-8001-0000-00	Rack Mount Expansion Kit (Adds up to 6 Option PCB's)
88-8002-0000-00	Rack Mount Expansion Kit, 19" (Adds up to 3 Option PCB's)
88-C000-0000-0U	TracXP Controller Piezo, 100 dB Alarm, 24 VDC

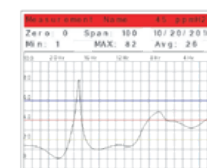*For additional opitons please contact your TracXP representative

TXP-C16X Controller Display Screens

Bar Graph Screen
Displays all 16 channels. Cell color indicates channel status.

Main Data Screen
Displays all 16 channels simultaneously. Cell color indicates channel status.
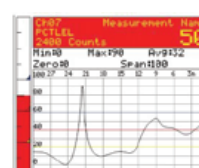

Zone Screen
Displays all 8 possible active zones. Cell color indicates channel status.

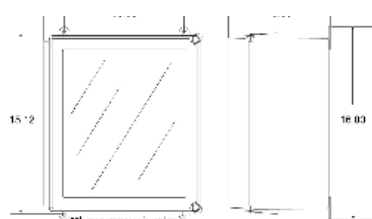
24 Hour Trend Screen
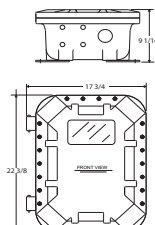Displays channel hour trend (status, Max., Min., Avg. channel ID and engineering units).

Combination Screen
Displays most recent 30-minute trend, bar graph, status, Max., Min., Avg., channel ID and engineering units.

NEMA 4X Fiberglass Compact Enclosure

NEMA 7 Aluminum Explosion Proof

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