

Model MCX32-TP

Gas Control & Alarm System



Description

The MCX32-TP is a scalable, low power alarm and control system designed to monitor gas detection sensors and other field devices using analog and digital communications.

Built around a modular architecture with an intuitive touchscreen HMI, the system combines flexible I/O expansion, real time visualization, and configurable enclosure options to support a wide range of industrial safety applications.

Key Features

- Supports up to 64 field devices using stackable, DIN rail mounted I/O modules
- 4–20 mA analog inputs and RS 485 Modbus™, functions as a Modbus™ Master
- Modular I/O options: analog inputs (DA 8), relay outputs (RL 8), digital inputs (DI 8)
- Field-configurable via touchscreen HMI with automatic Detcon Modbus device detection
- Displays real time readings and alarm status on a 10-inch touchscreen
- Optional wireless integration using RXT-320 SmartWireless® transceivers
- Available in NEMA 4X wall mount, NEMA 1 panel mount, Fiberglass or SS enclosures

Applications

- Oil and gas production sites
- Oil and gas drilling rigs
- Offshore production platforms
- Wastewater treatment plants
- Food and beverage processing
- Pulp and paper mills
- Refining and petrochemical



Model MCX32-TP

Integrated Alarm & Control System

System Specifications

System Capacity (Inputs and Outputs)	Up to 64 field devices (Standard Units) 64 + field devices available (Customized)
HMI's	Sizes: 4", 5", 7", 10" and 15" LED Color Touchscreen
Input / Output Options	Analog Inputs / Outputs (4-20mA) Relays Digital Inputs / Outputs (RS-485 Modbus™)
Ethernet / Internet	2 LAN Ports Ethernet IP, Modbus TCP, BACnet IP, EGD IIoT & Remote Access – MQTT, OC360, WebMI Others – SMPT, NTP, FTP
Serial Communication	RS-232, RS-485, Wireless PLC / Drive Protocols RTU / Modbus Master / Slave USB C, USB A
Warranty	One Year

Environmental Specifications

Operating Temperature Range	14°F to + 140°F, -10°C to + 60°C (Options available)
Storage Temperature Range	-4°F to + 140°F, -20°C to + 60°C
Operating Humidity Range	5-95% RH non-condensing

Specifications subject to change without notice

Mechanical Specifications

Dimensions	Configuration-dependent
Weight	Configuration-dependent
Enclosure Material Options	Fiberglass Reinforced Polyester Stainless Steel Optional Onboard Strobes (max 2) Optional Onboard Horn (max 1)
Enclosure Ratings	IEC Ingress Rating IP66 Type 1, 3, 3S, 4, 4X, 12, 13, as designated Flammability Rating: UL94-5VA

Electrical Options

Power Input	115-230 VAC or 10-30 VDC
Power Consumption	8 Watt (Typical 7" HMI) (I/O module power consumption not included) (Field device power consumption not included)
Electrical Classification	Model MCX32-TP-N4X: NEMA 4X Corrosion resistant weatherproof Model MCX32-TP-C1D2 Class I; Division 2, Group C, D (Self-Declared)

Order Guide

PN 954-HC1000-006-040	Model MCX32-TP-N4X, General purpose Controller Wall Mounted N4X Enclosure 110/220 VAC, 24 VDC power supply, 7" inch Touchscreen HMI (up to 64 active channels).
PN 954-HC1000-006-440	Model MCX32-TP-N4X, General Purpose Controller Wall Mounted N4X Enclosure 110/220 VAC, 24 VDC power supply 7" inch Touchscreen HMI with Wireless Transceiver (up to 64 active channels)
PN 956-HC1000-006-040	Model MCX32-TP-C1D2, Self-Declared Class 1 Division 2* Controller, N4X Enclosure 110/220 VAC, 24 VDC power supply, 7" inch Touchscreen HMI (up to 64 active channels).

TeledyneDetcon quality assurance programmes demand the continuous assessment and improvement of all our products. Information in this leaflet could thus change without notification and does not constitute a product specification. For more information, please contact us or your company representative.



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