

Exertherm Thermal Xpert 25 (ETX25)

Product Overview

Exertherm Thermal Xpert 25 (ETX25)

ETX25 is the next generation operator interface display for Thermal Monitoring of electrical switchgear and switchboards using the Exertherm system. It provides Continuous Thermal Monitoring (CTM) for critical electrical circuits in power distribution assemblies.

Features

Data collection

- Polls up to 10 x Exertherm Datacards and up to 5 x Modbus Monitoring Alarm (MMA) which can each connects with 12 MCC Datacards via Modbus RTU

Alarm & relay outputs

- Threshold-based alarm detection, includes Exertherm LoadMap algorithms for low load protection
- On-screen notifications, relay outputs, and audible beep alarms
- Alarm log for event tracking

Trend logging

- Records temperature sensor data for local display and historical analysis
- Supports data export for further evaluation
- .CSV file format

Advanced HMI visualization

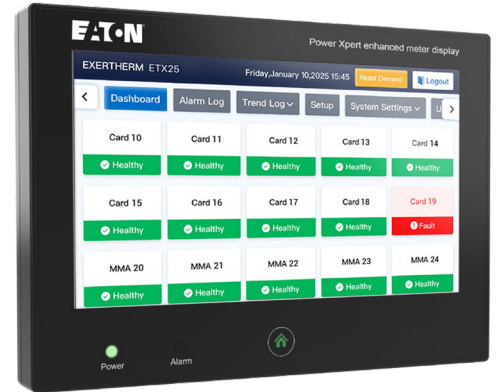
- 7" TFT touchscreen (800×480) for intuitive configuration and real-time display
- Real-time and historical data charts, including temperature visualization

Flexible communication

- RS-485 for downstream data polling via Modbus RTU
- Dual 100Mbps Ethernet for upstream Modbus TCP and web server external access

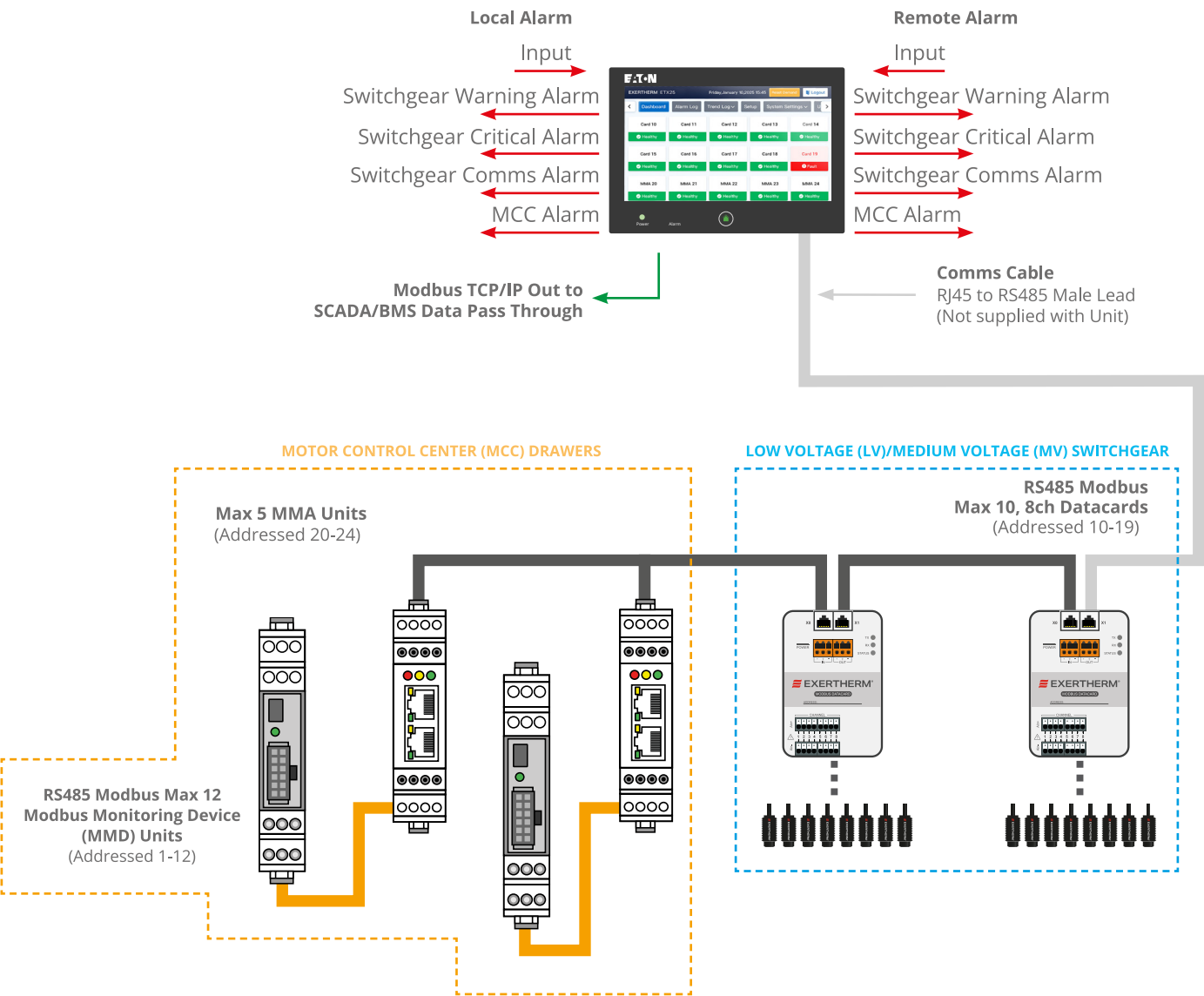
Web-Based access

- Embedded web server for remote monitoring, configuration, and visualization via HTTP/HTTPS.



Exertherm Thermal Xpert HMI 25 (ETX25)

Enhanced Meter Display with Integral Gateway Communication Architecture



Specifications

Communication

Serial Port Protocol	Modbus-RTU 9600~115200 bps
Ethernet Protocol	Modbus TCP HTTP/HTTPS

Relay outputs

Channel Count	8 Relay Outputs (RO1-RO8) & 2 Common Terminals (COM1 & COM2)
Relay Type	1 Form A (Normally Open)
Max Switching Voltage	250VAC or 30VDC
Max Load Current	5A (Resistive Load)

ALERT: If only one relay is used, the maximum current is 5A. When multiple relays are used, the total current must not exceed 8A in each common terminal.

ALERT: Do NOT mix AC and DC loads between the two outputs. The outputs must either be 250 VAC or 30 VDC.

NOTE: The two relay outputs, COM1 and COM2, share a common power source and must use the same type of voltage.

Low voltage DC control power

Operating Range	9 to 36V DC±10%
Burden	6W
Withstand	Installation Category I

Low voltage DC control power

LCD Type	Color TFT
Illumination Backlight	White LED, software-controlled
Display Resolution	800x480 pixels
Viewing Area	7.0" diagonal
Colours	24 bits
Touchscreen	Capacitive
Virtual Keypad Touchscreen	Display virtual keyboard when the application requires data entry

Operating environment

Operating Temperature	0°C to 55°C 32°F to 131°F
Storage Temperature	-20°C to 60°C -4°F to 140°F
Relative Humidity	0% to 90% Non-Condensing
Altitude	0~2000m
Pollution Degree	2
Location/Mounting	Indoor use only

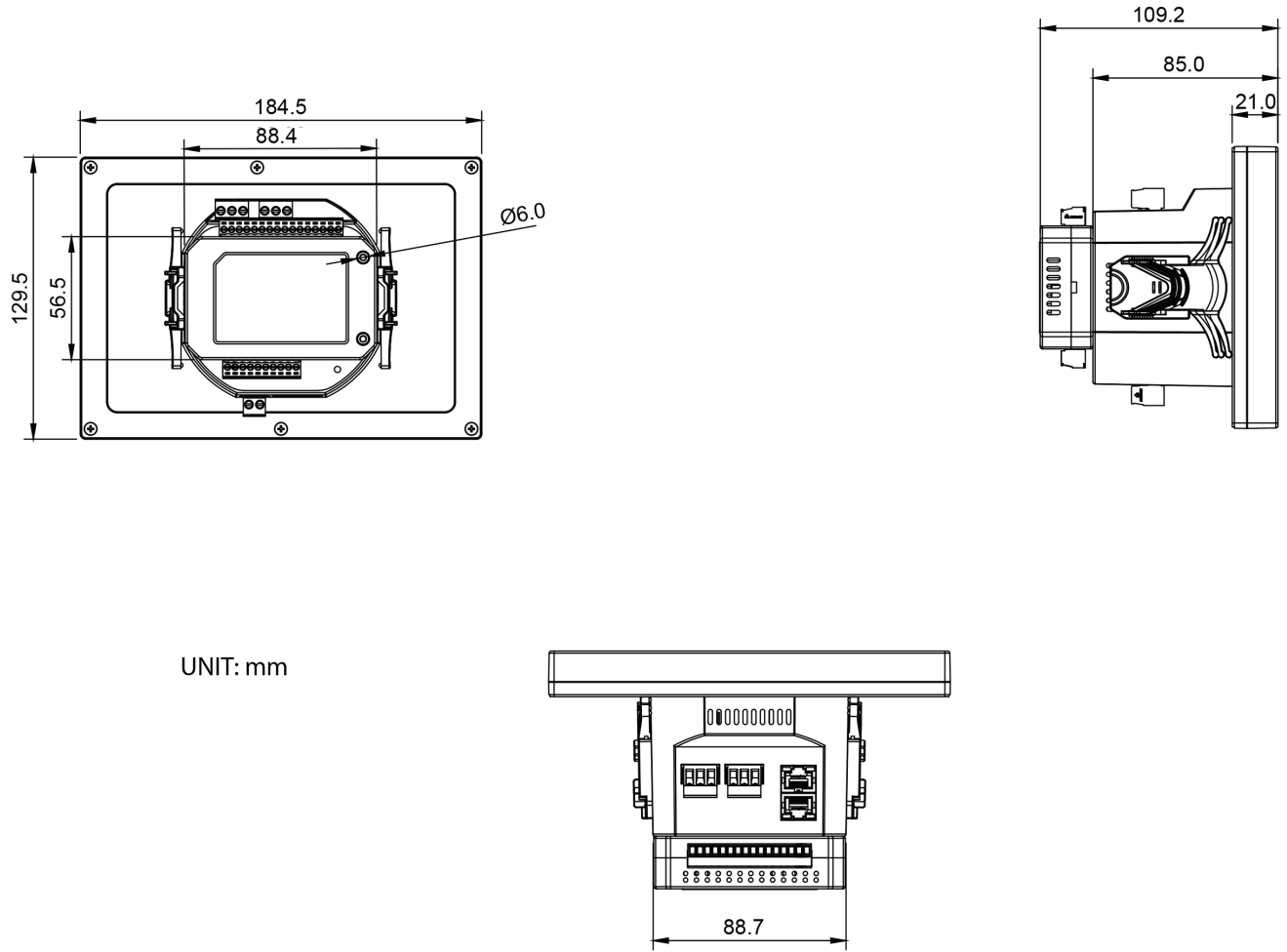
Standard compliance & certifications

Environmental Standard	CE, RoHS
Safety Standard	UL 61010-1
EMC Standard	IEC 61000-6-2, IEC 61326-1 IEC 61000-4/-2-3-4-5-6-8 FCC part 15 class A, EN55032 Class A

Ordering information

Description	Catalog number
Exertherm Thermal Xpert HMI 25	900458

Dimensions



UNIT: mm