

SmartTrace™ Uncontrolled Monitoring Panel

DESCRIPTION

The SmartTrace™ Uncontrolled Monitoring Panel is a compact control solution designed specifically for monitoring heat trace circuits that are directly fed from a distribution panel or a non-digital control panel (ambient contactor panel). Its purpose is to provide real-time monitoring and management capabilities for heat trace systems. The panel is intended to be installed adjacent to distribution panels containing heat trace circuits or any non-digital heat trace panel.

INSTALLATION OPTIONS

The monitoring panel offers two installation options:

- **External Installation**

Current transducers are installed externally to the The SmartTrace™ Uncontrolled Monitoring Panel, such as within a distribution panel or another enclosure.

- **Internal Installation**

Current transducers are integrated inside the SmartTrace™ controller, and heat trace power feeds are routed through the monitoring panel.

FEATURES

- **Live Visibility**

Provides real-time visibility into the functionality of heat tracing systems.

- **Connection to SmartTrace™ Application**

Seamlessly integrates with the SmartTrace™ application, enabling comprehensive monitoring and management capabilities.

- **Alarm Functionality**

Offers alarm capabilities to alert users to any issues or anomalies in the heat trace circuits.

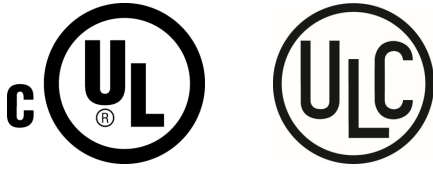
- **Track and Analyze**

Enables tracking and analysis of current and power consumption trends, aiding in informed decision-making and energy optimization.

- **Control Optimization**

Prompts users when manual intervention is required to turn heat tracing systems on or off, ensuring ultimate control and efficiency.

CERTIFICATIONS



SPECS

General

Ambient Operating Temperature:	-25 °C to 55 °C
Ambient Storage Temperature	-25 °C to 85 °C
Dimensions	Custom
Enclosure Rating	NEMA 12 or NEMA 4X
Humidity	10 % ... 95 % (according to DIN EN 61131-2)
Input Voltage	120-240VAC
Area Classification	Cl.1 D2

Communication Options

Type	Wired – Ethernet RJ45 Connector Optional – Wired - 2-wire RS-485 Optional – Cellular
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Line Current Sensors (Current Transducers)

Max Current	120A
Accuracy	± 4% of range at 30 A line current

Panel Indication

Pilot Lights (programmed from SmartTrace™ application)	Energized (green) Alarm (red)
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Software

Required	SmartTrace™ Monitoring or higher
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Connection Terminals

Power Supply/Line/Load	#22 – 8 AWG
RS-485	#24 – 12 AWG

BUILD PART NUMBER

ST-MON * E16148MS12 * X60 * 4 * ETH * 120

Enclosure Dimension

Dependent on configuration

Enclosure Material

FG – Fiberglas

SS – Stainless Steel

MS – Mild Steel

Panel Rating

12 – NEMA12 (Indoors)

4X – NEMA4X (Outdoors)

Current Transducer Location

X – External to SmartTrace Monitoring Enclosure

O – Internal to SmartTrace Monitoring Controller

Maximum Amperage Rating

30 – 0-30 Amps

60 – 0-60 Amps

120 – 0-120 Amps

Number of Circuits

1 to 16

Greater than 16 – special

Communication Connection

ETH – Ethernet RJ45 Connection

SER – 2-Wire RS-485 Connection

CEL – Cellular Connection

Input Voltage

120 – 120VAC Input

208 – 208VAC Input

240 – 240VAC Input

277 – 277VAC Input

IMPORTANT MESSAGES

- If using external current transducers ensure installation complies with necessary agency approvals.
- Handle with care to avoid mechanical damage.
- Keep electronics dry.
- Avoid exposure to static electricity.
- Avoid contamination with metal filings, liquids, or other foreign matter.
- Take care to protect the user interface board on the enclosure door.
- Use agency-approved conduit bushings, adapters, and cable glands to keep the enclosure protected from dust and fluids.

PANEL LAYOUT: EXAMPLE

