

### **APPLICATION**

The TCM2 is a microprocessor-based temperature control and monitoring module developed specifically for heat tracing applications. The unit provides control and monitoring capabilities via digital information display for one or two heat tracing circuits with input from up to two RTDs per circuit.

# **RATINGS**

TATINGS
Control and monitoring capacity 2 heat tracing circuits
Module supply voltages 100 to 240 Vac
Controlled output load voltage100 to 600 Vac
External operating ambient40°C to 40°C
Storage ambient40°C to 80°C
Power clamp function programmable from 20%-100%
Temperature inputup to two, 3-wire platinum
100 Ohm RTDs per circuit
Temperature control range40°C to 600°C
Control band programmable in increments of 1 degree
Module dimensions (HxWxD) 118 x 119 x 83 mm mm
High operating current alarm1 to 300 Amps <sub>2</sub>
Low operating current alarm 0 to 299 Amps
Ground leakage alarm/trip20 to 250 mA
(in 1 mA increments)
Alarm outputsrated to 100 mA
Self-test frequencyprogrammable from 2 to 99 hours
Communication Modbus ASCII/RTU via RS485 <sub>3</sub>
Auxiliary power output

# **CERTIFICATIONS/APPROVALS**



Ordinary Locations -40°C < Ta < +60°C



- 1. For load voltages above 600 Vac, contact factory.
- 2. For higher amperage ratings, contact factory.
- 3. Ethernet or wireless communication via optional accessory modules.
- 4. Mechanical relay options are approved for ordinary location installations.



# **PRODUCT FEATURES**

A TCM2 control and monitoring unit offers the following features:

Reduces Man-hours: With the simplified, 4-button user interface, operators can quickly program the TCM2. The new TCM2 wiring harness allows maintenance personnel to swiftly install, remove, and conduct troubleshooting of the system.

Improved Control Methods: The TCM2 utilizes multiple control methods, similar to the Thermon TCM18 (On/ Off, Soft-Start, Proportional) and features the upgraded Ambient Proportional Control (APC and APCM) that employs the energy saving method of Ambient Proportional Control with the higher current capacity of the mechanical relay.

Upgraded Communications: The TCM2 can network with any Thermon Controller to TraceNet™ Command or any plant DCS system via RS-485 in either MODBUS ASCII or RTU. In the panel, the TCM2 can employ a converter to offer MODBUS TCP/IP Ethernet.



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