

## intelliTHERM™

### Screw Plug Heating Solution

- Mount controls locally on heater (process temperature up to 250°F) or remotely
- Digital Indicating Controls for use with 2.5" ScrewPlug
- Heater Power Control and Disconnect
- Diagnostics Indications
- RS485 Digital Communications with MODBUS® Protocol
- 120/240/480 Volt
- Single or Three Phase
- Upgrade Existing Installations

#### Description

The IntelliTHERM is a complete heating solution that includes digital controls and diagnostics in an integral package. It is designed for indoor area use directly mounted to a catalog screw plug heater assembly. It's compact size minimizes space required and as an option, the panel is remote mountable.

#### Standard Features

- 1/16 DIN Digital Temperature Controller w/ auto-tuning PID
- Integral Power Switching (up to 48 Amps)
- Integral Disconnect Switch
- Type "J" Thermocouple Electronic Process Temperature Sensing
- "EZ" Slip-on Rotatable Control Panel Mounting to the heater (Provisional Patent Pending)
- UL Listed or Recognized components
- OPTIONAL: 1/16 DIN Temperature HI/LOW Limit Controller - Model IL-3S



Shown assembled with screw plug



SCREW PLUG

#### Advantages

- Save space, time and additional materials during installation of electronic process temperature sensing and control.
- Provides local digital indication of process temperature
- High or low temperature alarm to alert user of process problem
- Heater service alarm indicates if heater is operating below normal output to allow service BEFORE a process problem arises
- Remote mount available for additional installation flexibility.

- Stock availability for same day shipment
- Communications for remote control monitor and indication through PC or master control system

#### Diagnostics Indications

- "Heat On" Indication and Temperature Readout
- Selectable Temperature Alarm
- Heater Service Alarm

#### Specifications and Ordering Information

Heater Selection - E1 General Purpose						Circuits	Amps	Model	Stock	PCN	Controls
Phase	Single Phase			Three Phase							
Volts	120	240	480	240	480	1	48	I-3S	S	329682	1604
max kW	5.7	11.5	23	19	39						
Phase	Single Phase			Three Phase		1	48	IL-3S	NS	329690	1600 and 1604
Volts	120	240	480	240	480						
max kW	5.7	11.5	23	19	39						

Shipping weight = 33 lbs.

Dimensions (In.):

Panel = 12 w x 13.5 h x 16.5 d

"EZ" Adapter = 5 dia. x 3.25 l

Step 1: Determine heating needs. Refer to the heater selection criteria in the table above and order your 2.5" screw plug heater. Select from Models MT-3, MTS-3, MTI-3, MTO-3 in the catalog pages for screw plug heaters.

**OR**

Upgrade your existing installation when your heater is within the heater selection criteria in the above table. Upgrades apply to standard 2.5" screw plug models MT-3, MTS-3, MTI-3, MTO-3, ARMT-3, ARMTS-3, ARMTI-3, ARMTO-3.

Step 2: Order IntelliTHERM kit from the PCN in the above table (includes controls & heater adapter with connections).