

# TM20EX Mechanical Thermostat

nVent RAYCHEM T-M-20-S/+x+y/EX is a mechanical surface sensing thermostat providing temperature control and temperature limit in hazardous areas. The safety limiter prevents the heating system from exceeding a preset maximum temperature should the control function fail to operate or an unsafe process temperature occur. Available in ranges: +0 °C +120 °C, +0 °C +200 °C and +50 °C +300 °C. The maximum rated voltage is 400 VAC. The switching current capacity is 16 A.

## FEATURES

Simple to install and operate: supplied with 3 m long stainless steel fluid filled bulb and capillary, 6 cable entries

Energy saving, line-sensing electronic control thermostat

Adjustable set point temperature control: +0 °C +120 °C, +0 °C +200 °C and +50 °C +300 °C (with temperature limit ranges at +0 °C +120 °C, +50 °C +300 °C and +50 °C +300 °C respectively)

Direct switching, maximum current 16 A, 400 VAC: independent Ex d single pole change over micro switches with volt-free contacts

Lightweight unit, can be pipe mounted using nVent RAYCHEM support brackets or surface mounted

## SPECIFICATIONS

<b>Current Rating:</b>	16 A
<b>Depth:</b>	90 mm
<b>Height:</b>	120 mm
<b>Width:</b>	220 mm
<b>Max Voltage:</b>	400 V
<b>Material:</b>	Glass Fiber Reinforced Polymer
<b>Controller Switching Capacity:</b>	Max 16 A @ 400 VAC, Resistive load
<b>Thermostat Type:</b>	Mechanical Thermostat

Table 1/1

Catalog Number	Item Name	Controller Temperature Setting	Limiter Temperature Setting
1244-013410	T-M-20-S/+0+200C/EX	0 – 200 °C	50 – 300 °C
1244-013411	T-M-20-S/+50+300C/EX	50 – 300 °C	50 – 300 °C

Catalog Number	Item Name	Controller Temperature Setting	Limiter Temperature Setting
1244-016536	T-M-20-S/+0+120C/EX	0 – 120 °C	0 – 120 °C

## WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

**North America**  
 Tel +1.800.545.6258  
 Fax +1.800.527.5703  
[thermal.info@nvent.com](mailto:thermal.info@nvent.com)

**Europe, Middle East, Africa**  
 Tel +32.16.213.511  
 Fax +32.16.213.604  
[thermal.info@nvent.com](mailto:thermal.info@nvent.com)

**Asia Pacific**  
 Tel +86.21.2412.1688  
 Fax +86.21.5426.3167  
[cn.thermal.info@nvent.com](mailto:cn.thermal.info@nvent.com)

**Latin America**  
 Tel +1.713.868.4800  
 Fax +1.713.868.2333  
[thermal.info@nvent.com](mailto:thermal.info@nvent.com)

Our powerful portfolio of brands:

RAYCHEM PYROTENAX TRACER NUHEAT