



Product Data Sheet

Tracer® XM90 Expansion Module



SAFETY WARNING

Only qualified personnel should install and service the equipment. The installation, starting up, and servicing of heating, ventilating, and air-conditioning equipment can be hazardous and requires specific knowledge and training. Improperly installed, adjusted or altered equipment by an unqualified person could result in death or serious injury. When working on the equipment, observe all precautions in the literature and on the tags, stickers, and labels that are attached to the equipment.



The Tracer XM90 Expansion Module provides additional terminations when needed for Tracer UC400 and Tracer UC600 applications. Each expansion module has a total of 32 terminations as described in the following table.

Configurable Connections

| Input/Output type | Quantity | Types | Range |
|-------------------------------|---|--------------------------------------|---|
| Universal input | 16 | Thermistor | 10 kΩ Type II, 10 kΩ Type III, 2252Ω Type II, 20 kΩ Type IV, 100 kΩ |
| | | Resistive (setpoint) | 100Ω to 1 MΩ |
| | | RTD | 1 kΩ; 385, 375 platinum, Balco™, or 672 nickel |
| | | Current | 0 to 20 mA (linear) |
| | | Voltage | 0 to 20 Vdc (linear) |
| | | Binary | Dry contact |
| | | Pulse accumulator | Minimum: 20 ms, closed (on); 20 ms, open (off) |
| Universal Input/Analog Output | Configure using any combination of analog or binary inputs/analog outputs | | |
| Inputs | 8 | Thermistor | 10 kΩ Type II, 10 kΩ Type III, 2252Ω Type II, 20 kΩ Type IV, 100 kΩ |
| | | Resistive (setpoint) | 100Ω to 1 MΩ |
| | | RTD | 1 kΩ; 385, 375 platinum, Balco™, or 672 nickel |
| | | Current | 0 to 20 mA (linear) |
| | | Voltage | 0 to 20 Vdc (linear) |
| | | Binary | Dry contact |
| | | Pulse accumulator | Minimum 20 ms, opened or closed |
| Outputs | 8 | Current | 0 to 20 mA @16 Vdc, Class 2 |
| | | Voltage | 0 to 10 Vdc @20 mA, Class 2 |
| | | Pulse | 12.5 ms to 1 s (12.5 ms resolution), 1–60 s (0.5 s resolution) 80 Hz, <15V, Class 2 |
| Binary output | 8 | Relay – SPST (form A) Wet contact | 24 Vac, 0.5 A maximum each, Class 2. Ranges are given per contact. |

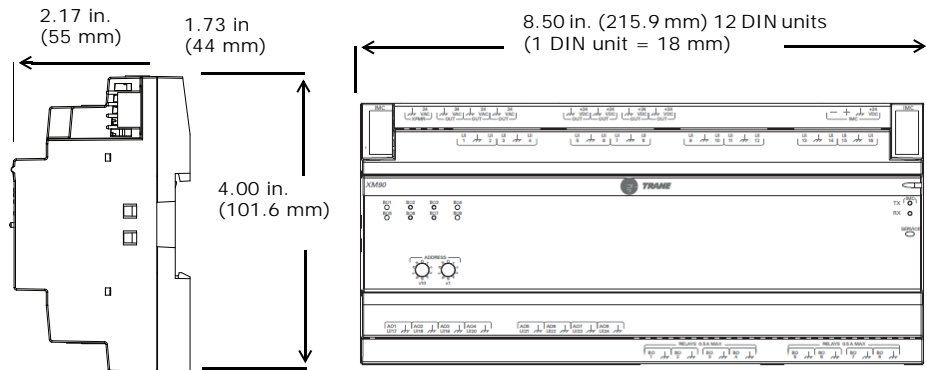
Note: *Inputs/Outputs:* The XM90 is limited to 10 combined 0 to 20 mA current inputs/outputs when powering up to two expansion modules (XM30/32).

Specifications

| Storage | |
|---|---|
| Temperature: | -67°F to 185°F (-55°C to 85°C) |
| Relative humidity: | 5% to 95% (non-condensing) |
| Operating | |
| Temperature: | -40°F to 158°F (-40°C to 70°C) |
| Humidity: | Between 5% to 95% (non-condensing) |
| Power: | Input: 18 to 30 Vac (24 Vac nominal) 50 or 60 Hz, 50 VA, 2.08A max @500mA load (on 24 Vdc output terminals), plus a maximum of 12 VA for each binary output up to 8 total. Output: 24 Vdc ±10%, device max load 500 mA dc Class 2. |
| Mounting weight of controller: | Mounting surface must support 1.3 lb. (0.6 kg) |
| Environmental rating (enclosure): | NEMA 1 |
| Installation: | UL 840: Category 3 |
| Pollution: | UL 840: Degree 2 |
| Agency Compliance | |
| <ul style="list-style-type: none"> • UL916 PAZX Open Energy Management Equipment • UL94-5V Flammability • CE Marked • FCC Part 15, Subpart B, Class B Limit | |

Dimensions

Note: DIN width measurements help determine how many modules can be installed on a DIN rail. Use the following standard: DIN 43 880 standard profile, Built-in Equipment for Electrical Installations, Overall Dimensions and Related Mounting Dimensions.



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