



Product Data Sheet

Tracer™ XM70 Expansion Module

Ordering numbers: X13651568010

X13651597010 (manufactured in USA)



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 XM70 Expansion Module provides additional terminations when needed for Tracer UC400 and Tracer UC600 applications. Each expansion module has a total of 19 terminations as described in the following table.

Configurable Connections

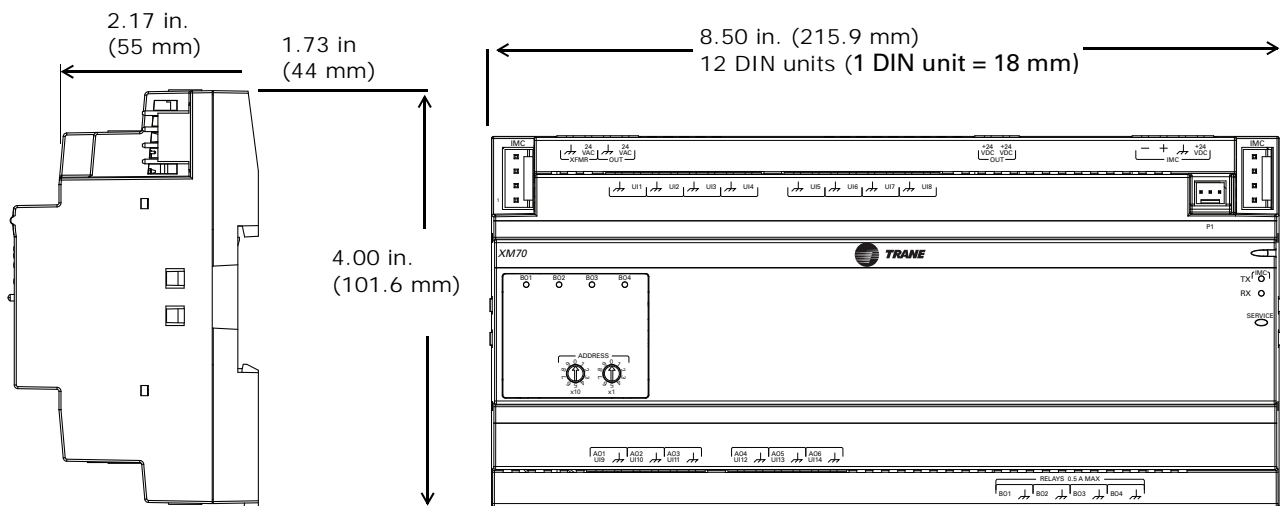
Input/Output type	Quantity	Types	Range
Universal input	8	Thermistor	10 k Ω Type II, 10 k Ω Type III, 2252 Ω Type II, 20 k Ω Type IV, 100 k Ω
		Resistive (setpoint)	100 Ω – 1 M Ω
		RTD	1 kW; 385 platinum, Balco™, or 672 nickel
		Current	0–20 mA (linear)
		Voltage	0–20 Vdc (linear)
		Binary	Dry contact
		Pulse width 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	6	Thermistor	10 k Ω Type II, 10 k Ω Type III, 2252 Ω Type II, 20 k Ω Type IV, 100 k Ω
		Resistive (setpoint)	100 Ω – 1 M Ω
		RTD	1 k Ω ; 385 platinum, Balco™, or 672 nickel
		Current	0–20 mA (linear)
		Voltage	0–20 Vdc (linear)
		Binary	Dry contact
		Pulse width accumulator	Minimum 20 ms, opened or closed
Outputs		Current	0–20 mA @16 V
		Voltage	0–10 Vdc @20 mA
		Pulse	12.5 ms to 1 s (12.5 ms resolution), 1–60 s (0.5 s resolution)
Binary output	4	Relay – SPST (form A)	24 Vac, 0.5 A maximum. Ranges are given per contact.
Pressure input	1	3-wire	0–5 inH ₂ O. Supplied with 5 Vdc. Designed for Kavlico™ transducers.

Note: *Inputs/Outputs:* The XM70 is limited to 10 combined 0–20 mA current inputs/outputs when powering up to two expansion modules (XM30/32).

Specifications

Storage	
Temperature:	-67°F to 203°F (-55°C to 95°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: 20.4–27.6 Vac (24 Vac \pm 15% nominal) 50 or 60 Hz, 26 VA (26 VA plus a maximum of 12 VA for each binary output) Output: 24 Vdc \pm 10%, device max load 600 mA
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 • UL864/UUKL Smoke Control (when installed and programmed in accordance with the Engineered Smoke Control System Applications Guide, BAS-APG019-EN) • 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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