

Product Data Sheet

Tracer[™] XM70 Expansion Module

Ordering number: X13651568010

TheTracer XM70 Expansion Module provides additional terminations when needed forTracer UC400 andTracer UC600 applications. Each expansion module has a total of 19 terminations: Eight (8) universal inputs, four (4) relay outputs, one (1) pressure input, and six (6) universal input/analog output terminations.

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Storage and Operating 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, ±15% nominal) 50 or 60 Hz, 26 VA (26 VA plus a maximum of 12 VA for each binary output)			
	Output: 24 Vdc, ±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			

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XM70 Device Connections

The following table provides information about the Tracer XM70 device connections.

Input/ Output type	Quantity	Types	Range	Notes	
Universal input		Thermistor	10kΩ – Type II, 10kΩ –Type III, 2252Ω – Type II, 20kΩ – Type IV, 100 kΩ		
		Resistive (Setpoint)	100Ω – 1ΜΩ		
	8	RTD	1kW; 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	Universal inputs require the following to meet the 25Hz requirement: duty cycle between 30% to 70% relay output - no load present when open.	
Universal Input/ Analog Output	Configure using any combination of analog or binary inputs/analog outputs				
Inputs		Thermistor	10kΩ – Type II, 10kΩ –Type III, 2252Ω – Type II, 20kΩ – Type IV, 100 kΩ	The XM70 is limited to 10 combined 0-20 mA current inputs/outputs when	
	6	Resistive (Setpoint)	100Ω –1ΜΩ		
		RTD	1kΩ; 385 platinum, Balco™ or 672 nickel	powering up to two expansion modules (XM30/32).	
		Current	0-20 mA (linear)		
		Voltage	0–20 Vdc (linear)		
		Binary	Dry contact		
		Pulse Width Accumulator	Minimum 20 ms, opened or closed	Universal inputs require the following to meet the 25Hz requirement: duty cycle between 30% to 70% relay output - no load present when open.	
Outputs		Current	0–20 mA @16 V	The XM70 is limited to 10 combined 0-20 mA current inputs/outputs when powering up to two expansion modules (XM30/32).	
		Voltage	0–10 Vdc @20 mA	Limited to 0-10 Vdc by software.	
		Pulse	12.5ms to 1 second (12.5ms resolution), 1 second to 60 seconds (0.5 second resolution)	Limited to 0-10 Vdc by software.	
Binary output	4	Relay – SPST (form A)	24 VAC, 0.5A maximum	Ranges are given per contact.	
Pressure input	1	3-wire	0–5 incw.	Pressure input supplied with 5 Vdc. Designed for Kavlico™ pressure transducers.	
Total terminations	19				



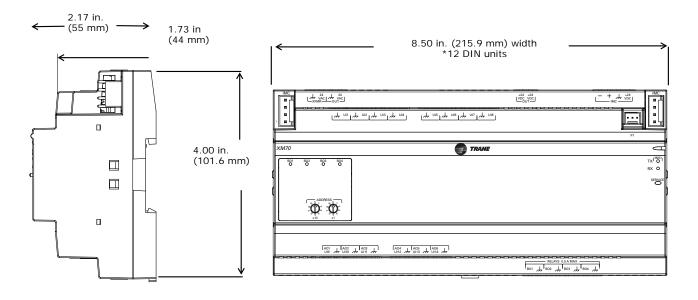
Dimensions

The following figure illustrate dimensions for the Tracer XM70 expansion module. DIN width measurements help determine how many modules can be installed on a DIN rail; use the following standard:

DIN Standard 43 880 standard profile, Built-in Equipment for Electrical Installations, Overall Dimensions and Related Mounting Dimensions.

*One DIN unit = 18 mm.

Figure 1. XM70 dimensions





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