



Product Data Sheet



Tracer™ XM70 Expansion Module

Ordering number: X13651568010

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: Eight (8) universal inputs, four (4) relay outputs, one (1) pressure input, and six (6) universal input/analog output terminations.

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

XM70 Device Connections

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

Input/ Output type	Quantity	Types	Range	Notes
Universal input	8	Thermistor	10k Ω – Type II, 10k Ω –Type III, 2252 Ω – Type II, 20k Ω – Type IV, 100 k Ω	Universal inputs require the following to meet the 25Hz requirement: duty cycle between 30% to 70% relay output - no load present when open.
		Resistive (Setpoint)	100 Ω – 1M Ω	
		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 Input/ Analog Output	Configure using any combination of analog or binary inputs/analog outputs			
Inputs	6	Thermistor	10k Ω – Type II, 10k Ω –Type III, 2252 Ω – Type II, 20k Ω – Type IV, 100 k Ω	The XM70 is limited to 10 combined 0-20 mA current inputs/outputs when powering up to two expansion modules (XM30/32).
		Resistive (Setpoint)	100 Ω –1M Ω	
		RTD	1k Ω ; 385 platinum, Balco™ or 672 nickel	
		Current	0–20 mA (linear)	
		Voltage	0–20 Vdc (linear)	
		Binary	Dry contact	
Outputs		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.
		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 inw.	Pressure input supplied with 5 Vdc. Designed for Kavlico™ pressure transducers.
Total terminations	19			



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