

Thermo Scientific Ramsey Micro-Tech 9101

Belt conveyor scale integrator

Features

- State of the art LCD graphic display with four line display
- Self-diagnostics, alpha numeric alarm messages
- Built-in USB for information upload and download
- Multiple language interface
- Improved communication capabilities
- Audit trail
- Automatic zero and span calibration
- Auto zero tracking
- Alarms and failure detection
- Available in panel and field-mount versions



The Thermo Scientific™ Ramsey™ Micro-Tech 9101 belt conveyor scale integrator incorporates advanced electronic design for improved performance and serviceability. This fifth-generation integrator is flexible enough to accommodate specific weighing applications and improve process efficiency in a variety of industries while providing vital information for the management and operation of your business.

When combined with a Thermo Scientific™ conveyor belt scale weighbridge and a speed sensor, the Ramsey Micro-Tech 9101 integrator can accurately monitor production output, control product load-out and keep track of inventory to help you manage your process effectively and efficiently.

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Thermo Scientific Ramsey Micro-Tech 9101 Belt Conveyor Scale Integrator

General Specifications

Material	Field Mount: Reinforced fiberglass housing, NEMA 4X, IP66, dust and watertight Panel Mount: Chromate mild steel chassis, front panel IP65, DIN 43700
Dimensions	Field Mount: 432 mm (17.01 in) x 360 mm (14.18 in) x 167 mm (6.59 in) Panel Mount: 308 mm (12.11 in) x 102 mm (4.00 in) x 202 mm (7.95 in)
Weight	Field Mount: 9 kg (20 lb); Panel Mount: 2.5 kg (5.5 lb)
HMI or Instrument Front	77 mm x 58 mm viewable LCD graphic display for easy reading, continuous backlight for ease of viewing indoors and outdoors; Available menu languages include English, German, Italian and Spanish

Environmental Specifications

Storage Temperature	-30°C to +70°C (-22°F to +158°F)
Operating Temperature	-20°C to +60°C (-4°F to +140°F)
Environmental Tolerances	Relative humidity 80% maximum up to +31°C (+88°F) decreasing linearly to 50% at +40°C (+104°F) Altitude up to 2000 m (6,561 ft); Field Mount suitable for outdoor mounting

Electrical Specifications

Nominal Voltage	Field Mount: 100-240 VAC; Panel Mount: 24 VDC +10%, -15% (user supplied)
Nominal Frequency	Field Mount: 50/60 Hz; Panel Mount: 24 VDC only, optional AC module available
Power Consumption	50 VA maximum
Load Cell Excitation Power Supply	5 VDC ±10%, 90 mA, minimum load impedance (58 ohms)
Load Cell	Load cell input circuits (2 each); Number: Up to six (6) 350-ohm load cells in parallel; Cable distance: 61 m (200 ft) or less without sense, or 914 m (3000 ft) with sense; Sensitivity: 0.5mV/V to 3.5 mV/V (keyboard selectable); Input Impedance: 1 M-ohm minimum; Maximum Usable Signal: 114% of 3 mV/V; Internal A/D counts: (3 mV/V): 6,440,000, one open collector output for pulse total (default) or alarms
Outputs	One open collector for pulse output (default) or alarms

Communications Specifications

Standard Serial Interface	RS-232C provides support for modem; RS-485, 2- and 4-wire multi-drop
Communication Protocols	Modbus RTU, Allen Bradley DF-1, Siemens
Ethernet	Ethernet/IP and Modbus/TCP
Built-in USB Port	Configuration and data storage

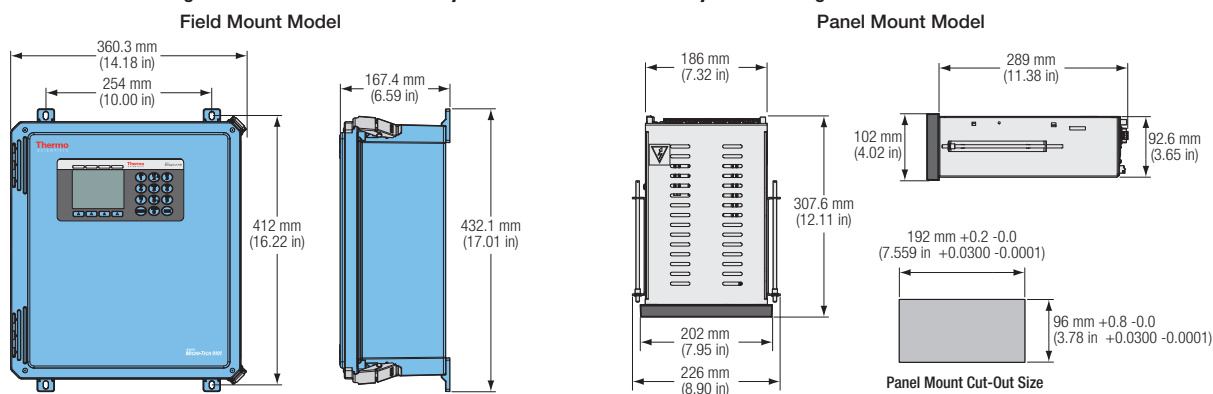
Expansion Options, (5) Slots

Optional 4-20 mA Out Board (0 to 20 mA or +4 to 20 mA); available in single channel or dual channel
Optional Input/Output Expansion Boards:
Relay output board (4 outputs); Opto-22 output board (4 outputs); DC input board (3 inputs); Opto-22 input board (3 inputs)
Optional Digital Input/Output Board (8 inputs/8 outputs)
Optional Analog Input/Output Board (2 inputs/2 outputs).
Profibus Board or Standard Comms Board

Certifications

Approvals	cCSAus, CE
Pending Approvals	SIL-2, Tick Mark, GOST, and other ATEX classifications

Dimensional drawings for Thermo Scientific Ramsey Micro-Tech 9101 belt conveyor scale integrators



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