

RTA-100 REFRACTING INDEX SENSOR

REFRACTING INDEX:

- % Mono Ethylene Glycol (MEG)
- % Mono Propylene Glycol (MPG)
- % BRIX (Sugar Content)
- % ALV (Low Viscosity)



KEY FEATURES

- Live Data Display
- > 4-20mA Output
- > RS-485 Modbus Output
- 316L Stainless Steel Body
- > Stainless Steel Tri-Clamp Flow Cell
- > 24 VDC Power Supply

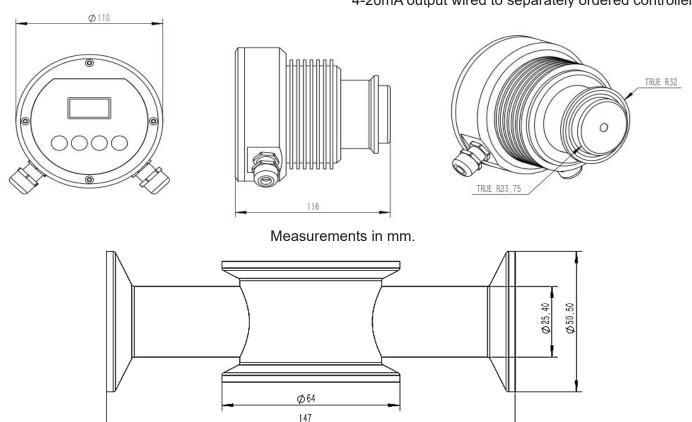
PRODUCT OVERVIEW

The RTA-100 is an inline digital refractometer that measures the refractive index of a liquid sample and provides a direct reading of highly accurate concentration values for a wide variety of water and process related applications.

This standalone device provides a live data display with a 4-20mA and RS-485 Modbus output for connectivity to micro-processor based controllers.

The RTA-100 also offers fully integrated 4-20mA and RS-485 Modbus output signals for connectivity to any microprocessor-based controller, display, PLC or DCS network. The RTA-100 has built-in temperature dependent equations to convert the measured sample temperature and refractive index to the percentage concentration of Mono Ethylene Glycol (MEG), Mono Propylene Glycol (MPG), Sugar Content (Brix) and Advanced Low Viscosity Fluid (ALV).

Models Available



Specifications

Model Number	RTA-100	Range of Measurement (% is by mass)	
Sample Temp	-4 to 158°F (-20 to 70°C)	Refracting Index	1.31700 – 1.5100
Max Sample Pressure / Flow	<142 psi (0.98 MPa) / <13.5 GPM (9.8 ft/s)	Brix	0.00 – 85.00%
Environmental	14 to 104°F (-10 to 40°C)	Mono Ethylene Glycol	0.00 – 100.00%
Temperature Weight	3.7 lbs (1.7 kg)	Mono Propylene Glycol	0.00 – 100.00%
Dimension	4.33" x 4.57" (110 x 116 mm)	Advance Low Viscosity Fluid	0.00 – 100.00%
Protection	IP-67		
Light Source	LED	Temperature	-20°C to 80°C
Wet Materials	Sapphire, 316L Stainless Steel	Resolution	
Signal Output	(2) 4-20 mA and RS-485 Modbus	Refracting Index	0.00001
Power	24 VDC (1.5W)	Brix & Glycol	0.01%
Regulation	CE / RoHS Marked		
		Accuracy	
		Refracting Index	±0.0001
		Brix & Glycol	±0.1%



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