

HI 96831 • HI 96832

Digital Refractometer for Ethylene and Propylene Glycol Analysis

- Dual-level LCD**
 The dual-level LCD displays measurement and temperature readings simultaneously
- Automatic Temperature Compensation**
 For accurate measurements
- Easy measurement**
 Place a few drops of the sample in the well and press the READ key
- BEPS**
 (Battery Error Prevention System) alerts the user in the event that low battery power could adversely affect readings.
- IP65 water protection**
 Built to perform under harsh laboratory and field conditions.
- Quick, accurate results**
 Readings are displayed in approximately 1.5 seconds.
- Single point calibration**
 Calibrate with distilled or deionized water
- Small sample size**
 Sample size can be as small as 2 metric drops.
- Automatic shut-off**
 After three minutes of non-use
- Stainless steel sample well**
 Resists corrosion from salt water.
- ABS thermoplastic casing**

The HI 96831 Ethylene Glycol and HI 96832 Propylene Glycol Digital Refractometers are rugged, portable, water resistant devices that utilize the measurement of refractive index to determine the percent volume and freezing point of ethylene or propylene glycol based solutions.

These digital refractometers eliminate the uncertainty associated with mechanical refractometers. HI 96831 and HI 96832 samples are measured after a simple user calibration with distilled or deionized water. Within seconds, the refractive index and temperature are measured and converted into one of two measurement units; % volume or freezing point. These meters use internationally recognized references for unit conversion and temperature compensation for glycol solutions (e.g. CRC Handbook of Chemistry and Physics, 87th Edition).

ORDERING INFORMATION

HI 96831 and HI 96832 are supplied with battery and instruction manual.



SPECIFICATIONS	HI 96831 Ethylene Glycol	HI 96832 Propylene Glycol
	% Volume	0 to 100 %
Range	Freezing Point	0 to -50 °C (32 to -58 °F)
	Temperature	0 to 80 °C (32 to 176 °F)
Resolution	% Volume	0.1 %
	Freezing Point	0.1 °C (0.1 °F)
	Temperature	0.1 °C (0.1 °F)
Accuracy (@20°C/68°F)	% Volume	±0.2 %
	Freezing Point	±0.5 °C (±1.0 °F)
	Temperature	±0.3 °C (±0.5 °F)
Temperature Compensation	automatic between 0 and 40°C (32 to 104°F)	
Measurement Time	approximately 1.5 seconds	
Minimum Sample Volume	100 µL (to cover prism totally)	
Light Source	yellow LED	
Sample Cell	stainless steel ring and flint glass prism	
Auto-off	after three minutes of non-use	
Enclosure Rating	IP65	
Battery Type / Battery Life	9V / approximately 5000 readings	
Dimensions / Weight	192 x 104 x 69 mm (7.6 x 4.1 x 2.7") / 420 g (14.8 oz.)	