

# ELECTRON MACHINE CORPORATION

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# **WORLD'S MOST RUGGED IN-LINE PROCESS REFRACTOMETER**

- ➤ Stainless-steel CNC machined sensing head
- ► Sapphire Prism
- Daylight visable color display
- ► NEMA 4X Fiberglass electronics console
- ► 4-20mA & RS-232 outputs
- ➤ (2) Input & (6) Configurable output relays
- ► In-house manufactured in USA
- ➤ 24 Hour Service Support

The MPR E-Scan is a hybrid-digital critical angle refractometer. It is used to measure the refractive index of process fluids and may be used as an error indicator or an integral part of a complete process control system.

With an extremely durable Sapphire prism as its foundation, the hybrid-digital design provides digital accuracy with rugged components in the sensing head. This combination produces the essential dependability required for years of use when installed in harsh industrial environments.

#### TYPICAL APPLICATIONS

Sucrose, Fructose & Dextrose

Soft Drinks, Fruit Juices, Dairy

Apple Sauce, Jams & Jellies

Beer, Wine, Coffee & Tea

Vegetable Oils

Tomato Paste

Honey

#### **OPTIONS**

Flush panel mounting of console

PID Control

Multi-range capability

HART Protocol, RS-422/484, & Isolated 4-20mA outputs

# MPR E-Scan

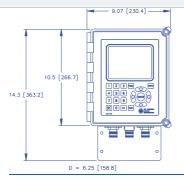
### **TECHNICAL DATA**

Model MPR E-Scan : Standard Features	
Accuracy/ Repeatability	±0.05 BRIX (.000075 R.I.) or .5% of span
Response Time	0.25 seconds to 3 minutes
Span	Configured for specific application for max. resolution
Display	Color TFT-LCD with LED backlighting
	640 X 480 Pixel, daylight-readable
Process Temperature	Up to 150°C (300°F) without air purge
Sensing Head Wetted Materials	2205 Full Duplex S/S, Sapphire, Peek® or VITON®
Service/Support	24HR Technical hotline and fast response for repairs/parts
Standard Outputs	4-20mA non-isolated, 0-10 Vdc non-isolated, RS-232
	(6) configurable output relays & (2) configurable input relays
Interconnecting Cable	6M (20FT) standard
	300M (1000FT) maximum

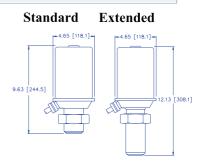
### Model MPR E-Scan : Optional Features

Control Measurement & Temperature PID Control
HART® Protocol, RS-422/484, & Isolated
Outputs
4-20mA (temperature, measurement)

Vortex cooled electronics console, Multi-range capable & Severe duty for extreme vibration/heat







Sanitary Adapter





