

UR 19

ON LINE REFRACTOMETER ANALYZER FOR SUGAR AND DIET BEVERAGES

The microprocessor-based UR-19 Brix and % Diet analyzer is a self-contained digital instrument with multiple functions, which mounts directly onto the process line. It continuously measures beverages in the process line, displays the temperature-compensated concentration value, transmits the value in both digital and analog modes, and activates alarm relay outputs.

The UR-19's unique, state-of-the-art design includes many modern features such as:

- Fast microprocessor
- High resolution CCD digital optical sensor
- Precise optical design and components
- High resolution graphical display

The instrument's faceplate contains a back-lighted graphical display and input keypad.

The user can completely personalize and configure the instrument's mA output signal, alarm output settings and the user language directly from the keypad or remotely via the RS232/RS422 serial port.

The UR-19 connects to the process line using 3/4" Tri-Clamp® sanitary fittings.



GENERAL FEATURES

Sugar Beverages:

Operating Range:

0 to 20 Brix

Accuracy:

+/- 0.02 Brix (0.1% of the range)

Drift:

None

Automatic Temp. Compensation:

-5 to 90 °C (23 to 194 °F)

Diet Beverages:

Operating Range:

0 to 2 Brix

Accuracy:

+/- 0.002 Brix (0.1% of the range,
equivalent to 0.5% of Diet Standard)

Drift:

None

Automatic Temp. Compensation:

+/- 5 C° within the range of -5 to 35 °C
(+/- 9 F° within the range of 23 to
95 °F)

Output Signals:

4 to 20 mA (Configurable)
RS232/RS422

Power Supply:

18 to 36 VDC, 20 VA
12 to 24 VAC, 20 VA

Alarms:

2 Configurable alarm outputs
(Dry relay contacts: 24V, 0.5 A)

Construction Characteristics

Measurement Prism:

Optical glass

Measurement Element:

High resolution CCD (Charge Coupled
Device)

Light Source:

Filament lamp

Display:

High resolution graphical display

Keypad Controls:

Polyester membrane keypad

User Language:

Multi-language, selectable

Enclosure:

Stainless steel
IP64 (NEMA 4X)

Materials In Contact With Measured Fluid:

AISI 316 stainless steel
Optical glass
Sanitary rubber

In-Line Connections:

3/4" Tri-Clamp®

Weight:

8 kg (17.5 lb.)

Fluid Operating Limits

Temperature:

-5 to 90 °C (23 to 194 °F)

Pressure:

-0.76 to 10 Bar (-11 to 145 psig)

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