

ProcanND[®] Process Refractometer

Instrument Features

Extremely sensitive and precise measurement of beverages !

Measures Brix concentrations with a sensitivity of over 0,001 °Bx !

Measures Diet concentrations with a sensitivity of over 0,1% Diet !

Stable measuring values !

The optics are not effected by process variations.

No drift due to product coating !

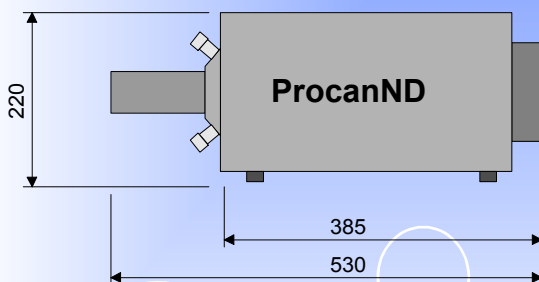
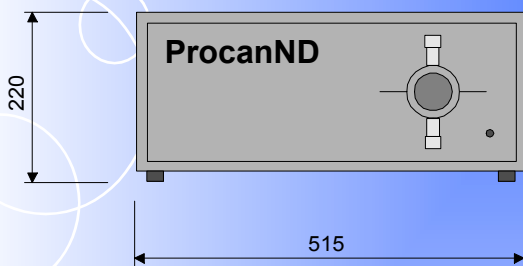
A unique efficient continuous ultra sonic cleaning system prevents any product coating on the measuring prism. Therefore no need for using water, steam, chemicals or other solvents to clean the prism.

Simple and reliable operation.

Approved quality and knowledge.

The refractive index value and process temperature are available as a digital signal at RS485 standards.

This instrument has been developed to be used with the ProcanMaster[®] computer system.



Specifications

Measuring range

0...20 °Bx
95...105 % Diet

Precision

> 0,01 °Bx

Sensitivity

> 0,001 °Bx

Drift

none

Speed of response

< 2 s

Temperature compensation

Is included in the calibration and made over range of interest

Process temperature

Max. 90 °C

CIP temperature

Max. 110 °C

Process pressure

Max. 25 bar

Flow in by-pass

Recommended 100...500 l/hour

Ambient temperature

-5...40 °C

Prism cleaning

Automatic ultrasonic cleaning system

Power supply

230 VAC, 50Hz, 110 VA

Process connections

SwageLock 12 mm fittings with SS / teflon flexible tubing

Output signals

Temperature and nD value via RS485 interface

Construction Features

Measuring prism / surface

Optical glass / sapphire

Light source and detectors

Infra red

Enclosure

Stainless steel 316, IP54

Materials in contact process liquid

SS316, Teflon, Viton, sapphire

Weight

26 kg