L LABORATORY

P PROCESS

S SOFTWARE

A AUTOMATION

SCHMIDT HAENSCH
innovators by tradition since 1864

iPR FS

Inline Process Refractometer

Certified Hygienic Design

SPECIFICATIONS	iPR FS (Food Safety)
Measuring scales	Refractive Index (RI), Sucrose (Brix) (already included) Up to 4 scales freely definable
Measuring range	1.32000 - 1.52000 RI / 0 - 85 Brix
Resolution	0.00001 RI / 0.01 Brix
Accuracy	± 0,00014 RI* / ± 0.1 Brix*
Reproducibility	± 0.00014 RI / ± 0.1% Brix
Ambient temperature	- 10°C to + 50°C
Sample temperature	0°C to + 90°C
Temperature measurement	NTC sensor for measurement of sample temperature placed inside the prism
Interfaces	2 insulated 4 - 20 mA analog outputs 2 digital output switch (up to 1 A) 1 serial output (RS232, alternativly RS485 or USB)
Power supply	24 V DC
Prism	Sapphire
Light source / wavelength	589 nm, LED
Process pressure (max.)	MPa (145 psi, 10 bar)
Process contact material	Sapphire, Stainless steel
Mounting accessories	VariVent (Tuchenhagen) or APV

* Standard conditions (589 nm, 20°C)

Food safety requires certification according to European standard EHEDG.
This is comparable to AAA.

- Hygienic design
- Rounded edges
- No slotted screws
- CIP/SIP possible (60 min max.)
- Material in contact with media: stainless steel, sapphire, PEEK
- Determination of dry substance
- Determination of mass percent
- Brix measurement
- Standard scales (Brix, Oechsle, Zeiss, Fat, Honey) with automatic temperature compensation

Typical applications of the model

- Sugar industry
- Beverages
- Food (oil from palm, corn, sunflower, soya)
- Essential oil in aroma
- Sweets and chocolate


CERTIFICATE OF COMPLIANCE

EHEDG

EL Class I

Date of issue: 15 March 2022

Valid until: 31 December 2023

EHEDG hereby declares that the product

inline Brix Refractometer, type iPR FS with PEEK sealing

from

Schmidt + Haensch GmbH & Co, Waldstr 80-81 , 13403 Berlin, Germany

has/have been evaluated for compliance and meets/meet the current criteria for Hygienic Equipment Design of the EHEDG

Certificate No. EHEDG-C2200015

Signed _____ President EHEDG
Ludvig Josefsberg

Signed _____ EHEDG Certification Officer
Karlijn Faber

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ISO 9001:2015