GS-XX

Inline Digital Refractive Glycol percentage/ BRIX percentage



Key Features

- 4-20 mA output of sample temperature and the percentage glycol or °Brix Pre-configured to get up and running fast
- 15+ years of operation in tough industrial environments
- Reduction of downtime
- Minimization of maintenance costs
- Built with sapphire
- Produced in “clean room” to prevent dust particle embedding
- Integrated self-diagnostics to prevent inaccurate readings
- Unparalleled precision: ±0.15 °Brix to 0.2 °Brix
- Unique compactness: 114 mm x 34 mm
- Competitive price point: Ideal cost-performance balance
- Strong combination of affordability and superior accuracy

Product Description

The GS-XX is an inline digital refractometer that measures the refractive index of a liquid sample.

This sensor is typically used in cooling systems and data centers to measure the glycol concentration, or for Brix measurements in the metal working or food processing industry.

The sensor comes in three configurations:

- Propylene glycol
- Ethylene glycol
- Brix

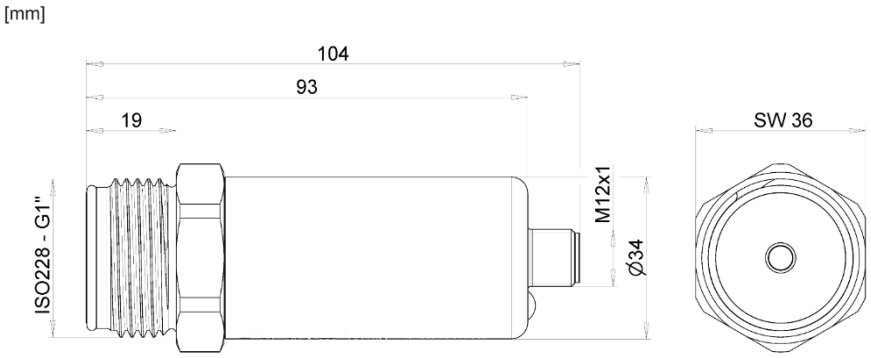
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Sensor code

GS-B30: 0 – 30 °Brix
GS-B50: 0 – 50 °Brix
GS-PG: 0-50% Propylene Glycol
GS-EG: 0-50% Ethylene Glycol



Specifications

	B30	B50	PG / EG
Refractive Index	1.3268 to 1.3830	1.3268 to 1.4215	1.3268 to 1.3830
Concentration	0 to 30 °Brix	0 to 50 °Brix	0 to 50% w/w
Accuracy	+/- 0.20 °Brix	+/- 0.15 °Brix	+/- 0.20 % w/w
Repeatability	+/- 0.1 °Brix	+/- 0.075°Brix	+/- 0.1 % w/w
Process Temp Range	0 to 60°C	0 to 60°C	-15 to 60°C
Temperature Measurement Accuracy	+/-1°C	+/-1°C	+/-1°C
Process Pressure	10 Bar	10 Bar	10 Bar
Ambient Temp Range	-5 to 55°C	-5 to 55°C	-5 to 55°C
Ambient Humidity	5% to 95% RH	5% to 95% RH	5% to 95% RH

Mechanical data

Housing Material	Stainless steel 1.4305 and plastic material
Materials (Wetted parts)	Sapphire, SS 1.4404, PEEK
Dimensions (mm)	34 dia, L=104
Weight (g)	350
Process connection	G 1” male (DIN/ISO 228)
Fastening Torque	10 Nm
Electrical connection	M12 Socket connector
Status identification	LED
Protection class	IP 65, IP 67
Power supply	DC 20 to 30V

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