InPro 8600/W Turbidity Sensor

Inline Turbidity Measurements

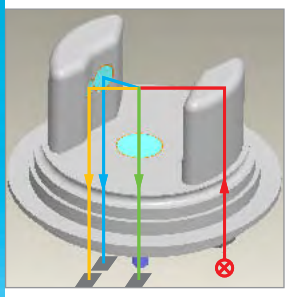
Tailored for Easy System Integration

Wireless configuration – fast and cost-effective

Configuration and verification of the sensor is performed remotely with a hand-held device. A transmitter for input and display is not necessary, leading to substantial cost savings.

Direct PLC integration

The turbidity sensor and measurement electronics are one. A straightforward integration in any PLC is realized via the standard 0/4…20 mA current output.



Light scattering with ratio principle

Highly precise turbidity measurement and trend monitoring of particle size distribution is guaranteed with digital measurement technology. Changes in color are compensated with the ratio principle.

Easy pipe installation and low maintenance

The Varivent process connection with a compact design enables installation in minimum space. Sapphire optics and the absence of O-rings guarantee reliability and process safety.

InPro 8600 with wireless configuration

The new InPro 8600 turbidity sensor with wireless configuration device has been specifically designed to simplify installation and reduce loop costs.

One configuration tool can serve more than one sensor by the use of a wireless connection between sensor and configuration tool. No hardwiring for transmitter installation is necessary, keeping the investment and installation costs low.

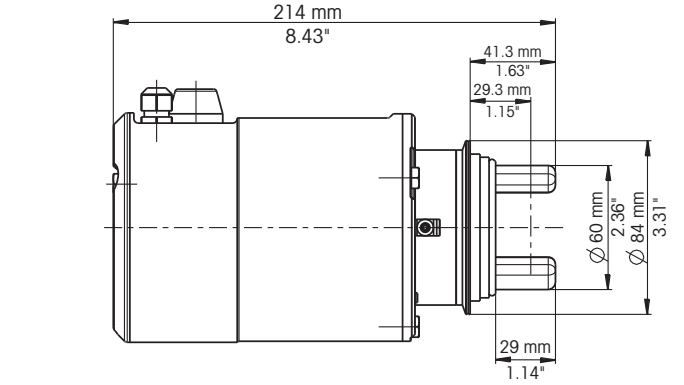
ISM® (Intelligent Sensor Management) plays an important role: With both the calibration data as well as further sensor-specific data stored in the sensor, the sensors are truly "Plug and Measure".

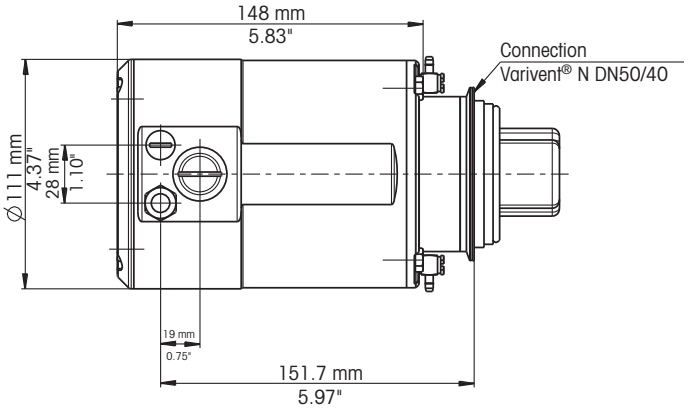
Leading-edge technology based on digital processing of the turbidity signals guarantees reliable measurements.

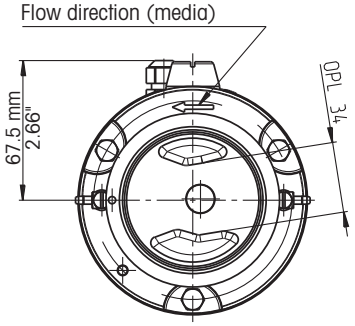
METTLER TOLEDO

Technical data
InPro 8600

Measuring principle	Light scattering Ratio measurement Light detection at 25° (single-angle) and 25°/90° angles (dual-angle)
Light source	650 nm, LED (Light Emitting Diode)
Measurement range	0 … 400 FTU (Formazin Turbidity Units)
Measurement accuracy	0.01 FTU (value < 1 FTU) 1% of the measured value (> 1 FTU)
Repeatability	0.01 FTU
Resolution	0.01 FTU
Response time (T90)	< 2 sec.
Units	FTU, EBC, ASBC, ppm SiO_2, mg/l SiO_2
Factory calibration	10-point calibration, based on formazin standards
Process conditions	
Max. pressure	Max. 16 bar (232 psi)
Temperature (ambient)	0 … 60 °C (32 … 140 °F)
InPro 8600/*/1	
Temperature (process media)	0 … 100 °C (32 … 212 °F) Max. 120 °C (248 °F), short time, 1 h
InPro 8600/*/2	
Temperature (process media)	0 … 80 °C (32 … 176 °F), at 25 °C (77 °F) ambient temperature with air cooling 0 … 70 °C (32 … 158 °F), at 25 °C (77 °F) ambient temperature without air cooling Max. 120 °C (248 °F), short time, 1 h
Materials and dimensions	
Sensor head (wetted)	Stainless steel (1.4404 / 316L)
Measurement windows (wetted)	Sapphire
Flange O-rings (wetted)	EPDM
Sensor housing	Stainless steel (1.4404 / 316L)
Surface roughness	Ra ≤ 0.8 µm
Protection rating	IP65
Installation	
Process connection	Tuchenhagen-Varivent® N 50/40
Process pipe dimension	≥ DN 40
InPro 8600/W	
Communication	Wireless (Bluetooth®)
Output	3 × 0/4 … 20 mA current output, individually configurable
Distance Bluetooth®	5 m (16.4 ft)
Power supply	24 VDC (± 2 V)
Certificates	
Quality / end control	•
PED	•
Hygienic design (EHEDG)	•
CE	•







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Sales and service:

CE

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ISO 14001 certified

Management System certified according to ISO 9001 / ISO 14001

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