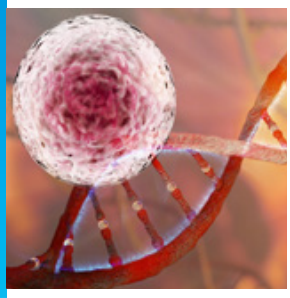
Turbidity Probe InPro 8100

Optical Fiber Turbidity Probe

Wide Measurement Range

Process Control at High Concentrations

The single-fiber backscattered light technology of the InPro™ 8100 probe provides a wide linear measuring range of up to 250g/l suspended solids.



Meets Hygienic Requirements

The InPro 8100 is intended for use in cell culture monitoring, pharmaceutical manufacturing and industrial processes.

Durable Stainless Steel Probe Body

Sensor body is available in stainless steel, which withstands harsh process conditions in pharmaceutical manufacturing.

Ensures Long-Term Measurement Stability

The probe's high performance fiber optics provide excellent measurement stability.

InPro 8100 Turbidity Probe

Durable Turbidity Probe for Biotech

Backscattered light technology and the use of a fiber optic cable enable a probe design with a uniform, unbroken surface structure. Therefore, The probe's is able to meet the toughest demands with respect to freedom from fouling and easy cleanability. InPro 8100 turbidity probe is intended to measure samples with concentration of suspended particles and emulsion. It offers a wide linear measurement range.

Intended for use from the small-scale benchtop level to commercial process installations.

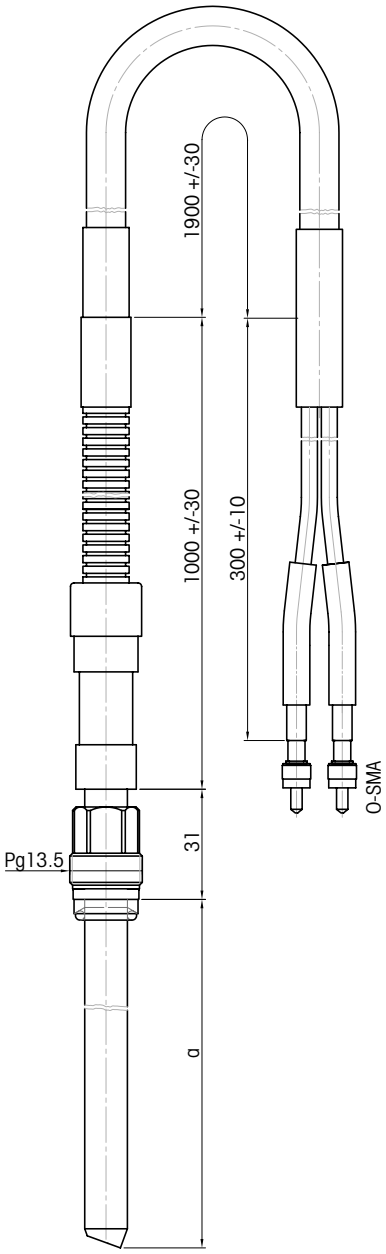
See more about InPro 8100 at:

www.mt.com/Turbidity

METTLER TOLEDO

Technical data of the InPro 8100

Technology	1 – fiber
Measuring Range	10 to 4000 FTU
Suspended Solids (Diatomaceous earth as reference)	0 to 250 g/L
Shaft Material	Stainless steel (316L)
Shaft Lengths	120, 205, 297 or 407 mm
Probe Diameter	12 mm
Surface Finish	N5 (Ra = 0.4 µm / 16 µin)
Sterilizable	Yes, steam sterilizable at 130 °C / 266 °F
Certificates and Approvals	ATEX and Material Certificate 3.1
Measuring Principle	Backscatter
O-Ring	Viton® FDA
Primary Media/Application	Pharmaceutical / Life Science / Chemical Process
Autoclavable	Yes, for autoclavable version see ordering information
Wetted Parts, Metals	DIN 1.4435 (316L)
Process Connection	Pg 13.5
Cable Connectors	SMA
Cable Type	Duplex HCS fiber, fixed
Fiber Optic Cable	3 m / 10 ft, fixed
Operating Pressure	0…6 bar / 0…87 psi
Measuring Temperature	–30…130 °C / –22…266 °F
Sterilization Temperature	130 °C / 266 °F



InPro 8100/S

Length	a
120 mm	122 mm
205 mm	207 mm
297 mm	299 mm
407 mm	409 mm

InPro 8100 (for autoclavable InPro8100 probe contact METTLER TOLEDO)

Length	Shaft Material	Order Number
120 mm	Stainless steel	52 800 205
205 mm	Stainless steel	52 800 206
297 mm	Stainless steel	52 800 207
407 mm	Stainless steel	52 800 208

Accessories	Order Number
CaliCap calibration accessory	52 800 210
Fiber cable extension kit 3 m (9.8 ft)	52 800 228
Fiber cable extension kit 5 m (16.4 ft)	52 800 229
Fiber cable extension kit 6 m (19.7 ft)	52 800 230
Fiber cable extension kit 10 m (32.8 ft)	52 800 231
Fiber cable extension kit 15 m (49.2 ft)	52 800 232
Fiber cable extension kit 20 m (65.6 ft)	52 800 233
Fiber cable extension kit 25 m (82.0 ft)	52 800 234
Fiber cable extension kit 30 m (98.4 ft)	52 800 235
Couplings to link fiber cables (two included in every kit)	52 800 240
Coupling box IP 65 (NEMA 4X)	52 800 241
Swagelok™ adapter NPT ½"	52 800 242

Longer cable lengths are availble. Please contact METTLER TOLEDO Ingold for details

Transmitter	Order Number
M800 Process 1-channel	30 026 633

METTLER TOLEDO Group
Process Analytics
Local contact: www.mt.com/contacts

www.mt.com
For more information

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