

# Optical Fiber Turbidity Measurement

## Wide Measurement Range



### Process Control at High Concentrations

The single-fiber backscattered light technology of the InPro 8050 probe provides a wide linear measuring range up to 250g/l suspended solids.



### Withstands Dirty Environments

The InPro 8050 was developed specially for accuracy and durability in industrial wastewater environments.



### Rugged PSU Sensor Body

The InPro 8050 utilizes a rugged PSU (poly-sulfone) body, which withstands harsh process conditions in wastewater treatment.



### Resistance to Abrasive Particles

The probe resists abrasive particles and fiber fouling in wastewater due to sapphire cylinder protection and the uniform, unbroken surface structure.



### InPro 8050 Turbidity Probe

Durable Turbidity Probe for Wastewater

Backscattered light technology and the use of a fiber optic cable enable a probe design with a uniform, unbroken surface structure. Therefore, the probe is able to meet the toughest demands with respect to freedom from fouling and easy cleanability.

The InPro 8050 turbidity probe can be used from a small-scale benchtop level to a commercial process installation due to its compact 12 mm design.

See more about InPro 8050 at:

► [www.mt.com/Turbidity](http://www.mt.com/Turbidity)

**Technical data of the InPro 8050**

Technology	1 – fiber
Measuring Range	10 to 4000 FTU
Suspended Solids (Diatomaceous earth as reference)	0 to 250 g/L
Shaft Material	PSU (Polysulfone)
Shaft Lengths	120 mm
Probe Diameter	12 mm
Sterilizable	No
Measuring Principle	Backscatter
O-Ring	Viton® FDA
Primary Media/Application	Industrial waste water
Autoclavable	No
Wetted Parts, Metals	DIN 1.4435 (316L)
Process Connection	Pg 13.5
Cable Connectors	SMA
Cable Type	Duplex HCS fiber, fixed
Fiber Optic Cable	6 m / 19.7 ft, fixed
Operating Pressure	0...2 bar / 0...29 psi
Measuring Temperature	0...60 °C / 32...140 °F
Sterilization Temperature	n/a

**InPro 8050**

Length	Shaft Material	Order Number
120 mm	PSU	52 800 209

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 available. Please contact METTLER TOLEDO Ingold for details

Transmitter	Order Number
M800 Process 1-channel	30 026 633

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**METTLER TOLEDO Group**

Process Analytics  
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For more information



Subject to technical changes

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