InPro 8050/InPro 8100 (Single Fiber)

Wide Measurement Range

InPro 8050

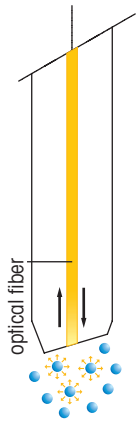
InPro 8100

The InPro 8100 and 8050 single optical fiber turbidity sensors are designed for samples that have high particle concentrations and they offer a wide linear measuring range. The InPro 8100 is available in stainless steel and is intended for use in cell culture monitoring, pharmaceutical production, and industrial processes. The InPro 8050 utilizes a rugged polysulfone body and was developed specifically for accuracy and durability in the industrial wastewater environment.

Specifications

InPro 8050	
Technology	1 – fiber
Measuring range	10 to 4000 FTU 0 to 250 g/L (diatomaceous earth as reference)
Shaft material	PSU (Polysulfone)
Shaft lengths	120 mm
Sensor diameter	12 mm
Fiber optic cable	6 m (19.7 ft), fixed
Sterilizable	No
Autoclavable	No
Explosion protection	No
InPro 8100	
Technology	1 – fiber
Measuring range	10 to 4000 FTU 0 to 250 g/L (diatomaceous earth as reference)
Shaft material	Stainless steel (316 L)
Shaft lengths	120, 205, 297 or 407 mm
Sensor diameter	12 mm
Surface finish	N5 (R_a = 0.4 µm/16 µin)
Fiber optic cable	3 m (9.8 ft), fixed
Sterilizable	Yes, steam sterilizable at 130 °C (266 °F)
Autoclavable	Yes, for autoclavable version see ordering information next page
Certificates and Approvals	ATEX, CE and Material certificate according to 3.1

Single optical fiber: emitted and back-scattered light travel on same fiber.



Features Overview

- Backscattered light technology
- Uniform sensor structure reduces fouling and maintenance
- Wide measuring range
- Broad range of applications
- High accuracy

Other Highlights

- Small 12 mm diameter saves valuable space
- Pg 13.5 threads for interface into housings
- Integrated fiber optic cable
- Variety of sensor lengths available

www.mt.com/InPro8100
www.mt.com/InPro8050

Ordering Information

InPro 8050	Length	Shaft Material	Order Number
InPro 8050	120 mm	PSU	52 800 209

InPro 8100	Length	Shaft Material	Order Number
InPro 8100	120 mm	Stainless steel	52 800 205
InPro 8100	205 mm	Stainless steel	52 800 206
InPro 8100	297 mm	Stainless steel	52 800 207
InPro 8100	407 mm	Stainless steel	52 800 208
InPro 8100 autoclavable sensor	120 mm	Stainless steel	contact METTLER TOLEDO
InPro 8100 autoclavable sensor	205 mm	Stainless steel	contact METTLER TOLEDO
InPro 8100 autoclavable sensor	297 mm	Stainless steel	contact METTLER TOLEDO
InPro 8100 autoclavable sensor	407 mm	Stainless steel	contact METTLER TOLEDO

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

Autoclavable sensor

Fiber optic extension cable

Coupling box for fiber optic cable

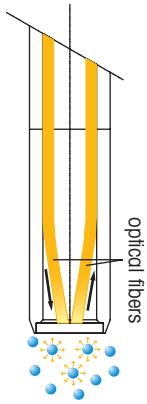
M800 1-channel transmitter

Suitable Housings	p.
InFit 761 e	110
InFit 762 e / 763 e	112
InFlow	114
InDip	113
InTrac 779 e	119
InTrac 799 e	120
InTrac 785	122

InPro 8200 (Dual Fiber)

High Resolution at Medium Turbidity

Two optical fibers: for emitted and backscattered light protected by scratch resistant sapphire window.



The InPro 8200 dual optical fiber turbidity sensor is designed for samples with medium to high concentration and where high resolution is a requirement. The InPro 8200 is available in stainless steel or Hastelloy™ and is intended for use in cell culture monitoring, crystallization control, and industrial processes including liquid/solid separation.

Specifications

Technology	2–fiber
Measuring range	5 to 4000 FTU 0 to 30 g/L (diatomaceous earth as reference)
Shaft material	Stainless steel (316 L) Hastelloy
Shaft lengths	120, 205, 297 or 407 mm
Sensor diameter	12 mm
Surface finish	N5 (R_a = 0.4 µm/16 µin)
Fiber optic cable	3 m (9.8 ft), fixed
Sterilizable	Yes, steam sterilizable at 130 °C (266 °F)
Autoclavable	No
Certificates and Approvals	ATEX, CE and Material certificate according to 3.1

Features Overview

- Backscattered light technology
- Uniform sensor structure reduces fouling and maintenance
- Wide measuring range
- Broad range of applications
- High accuracy
- Sapphire window

Other Highlights

- Small 12 mm diameter saves valuable space
- Pg 13.5 threads for interface into housings
- Integrated 3 m (9.8 ft) fiber optic cable
- Variety of sensor lengths available

www.mt.com/InPro8200

Ordering Information

Sensor	Length	Shaft Material, Window Seal	Order Number
InPro 8200	120 mm	Stainless steel, Epoxy	52 800 216
InPro 8200	205 mm	Stainless steel, Epoxy	52 800 217
InPro 8200	297 mm	Stainless steel, Epoxy	52 800 218
InPro 8200	407 mm	Stainless steel, Epoxy	52 800 219
InPro 8200	120 mm	Hastelloy, Epoxy	52 800 220
InPro 8200	205 mm	Hastelloy, Epoxy	52 800 221
InPro 8200	297 mm	Hastelloy, Epoxy	52 800 222
InPro 8200	407 mm	Hastelloy, Epoxy	52 800 223
InPro 8200/S/Kalrez®-FDA/120	120 mm	Stainless steel, Kalrez®-FDA	52 800 224
InPro 8200/S/Kalrez®-FDA/205	205 mm	Stainless steel, Kalrez®-FDA	52 800 225
InPro 8200/S/Kalrez®-FDA/297	297 mm	Stainless steel, Kalrez®-FDA	52 800 226
InPro 8200/S/Kalrez®-FDA/407	407 mm	Stainless steel, Kalrez®-FDA	52 800 227
InPro 8200/H/Kalrez®-FDA/120	120 mm	Hastelloy, Kalrez®-FDA	Contact METTLER TOLEDO
InPro 8200/H/Kalrez®-FDA/205	205 mm	Hastelloy, Kalrez®-FDA	52 800 264
InPro 8200/H/Kalrez®-FDA/297	297 mm	Hastelloy, Kalrez®-FDA	Contact METTLER TOLEDO
InPro 8200/H/Kalrez®-FDA/407	407 mm	Hastelloy, Kalrez®-FDA	52 800 215

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
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Coupling box IP 65 (NEMA 4X)	52 800 241
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Longer cable lengths are available. Please contact METTLER TOLEDO Ingold for details.

Transmitter	Order Number
M800 Process 1-channel	30 026 633

Did You Know

The CaliCap™ calibration accessory can serve two important functions. Firstly, it can be used as a "dry check" to verify the performance of the Transmitter/Sensor combination. Secondly, it provides stable measurement during off-line calibration in small vessels where reflection can disturb the measurement.

Suitable Housings p.

InFit 761 e 110
InFit 762 e/763 e 112
InFlow 114
InDip 113
InTrac 779 e 119
InTrac 799 e 120
InTrac 785 122