

InPro® 6000 Sensor Series

Oxygen Measurement Sensors

Technical Data



InPro 6800/
InPro 6850 i
InPro 6900/
InPro 6900 i
InPro 6950/
InPro 6950 i

InPro 6860 i

InPro 6870 i
(not shown)
InPro 6880 i
InPro 6960 i
(not shown)
InPro 6970 i
(not shown)



USP
Class VI



Short description

The InPro O₂ sensor family provides the means for reliable in-line measurement of dissolved and gaseous oxygen in a wide spectrum of processes amongst others under sterile/hygienic conditions. To meet the range of respective requirements, METTLER TOLEDO offers a selection of advanced O₂ sensors and measuring systems for the beverages industry, biotechnology and chemical industry.

Outstanding features of the O₂ sensors are:

- hygienic design, capable of withstanding CIP procedures
- stainless steel surfaces with highly polished finish
- steam sterilizable and autoclavable up to 140 °C (284 °F)
- low detection limit at high signal stability
- O-rings with FDA and USP Class VI approval
- minimal maintenance requirement
- ISM (Intelligent Sensor Management) technology for digital sensors

Measuring systems for non-hygienic applications, such as in wastewater/effluent treatment, are also available.

Contents

Typical applications	2
Specifications	2
Drawings	6
Ordering information	8
Spare parts	9
Accessories	10
Compatibility with METTLER TOLEDO transmitters and housings	11

METTLER TOLEDO

Amperometric Sensors

Typical applications	InPro 6950 (i)	InPro 6900 (i)	InPro 6800 InPro 6850 i
Biotechnology/Pharma			
Fermentation	–	–	•
Brewery			
Yeast propagation	–	–	•
CO ₂ recovery	• (after recovery)	–	• (before recovery)
CO ₂ conditioning	•	•	–
Wort aeration	–	–	•
Filtration	–	•	–
Filling	–	•	–
Mineral water and soft drinks			
Spring water conditioning	–	–	•
Filling	–	•	–
Fruit juices and concentrates			
Processing	–	–	•
Storage	–	–	•

Specifications	InPro 6950 (i)	InPro 6900 (i)	InPro 6800 InPro 6850 i
Measurement principle	amperometric/polarographic (in accordance with ISO 5814 and EN 25 814)		
Working conditions			
Permissible pressure range during measuring (abs.)	0.2 ... 9 bar 2.9 ... 130 psi	0.2 ... 6 bar 2.9 ... 87 psi using standard membrane	0.2 ... 6 bar 2.9 ... 87 psi
	–	0.2 ... 9 bar 2.9 ... 130 psi using reinforced membrane	–
Mech. pressure resistance (absolute)	max. 12 bar max. 174 psi	max. 12 bar max. 174 psi	max. 12 bar max. 174 psi
Permissible temperature range during measuring	0 ... 80°C 32 ... 176°F	0 ... 80°C 32 ... 176°F	0 ... 80°C 32 ... 176°F
Mechanical temperature resistance	–5 ... 121°C 23 ... 250°F	–5 ... 121°C 23 ... 250°F	–5 ... 140°C 23 ... 284°F
– steam-sterilizable	•	•	•
– autoclavable	–	–	•
Sensor performance			
Operating range	0.1 ppb to air saturation	1 ppb to oxygen saturation	3 ppb to oxygen saturation
Accuracy			
– in aqueous media	≤±[1%+0.1 ppb]	≤±[1%+1 ppb]	≤±[1%+3 ppb]
– in liquids containing CO ₂	≤±[1%+0.25 ppb]	≤±[1%+3 ppb]	≤±[1%+6 ppb]

Optical Sensors

Typical applications	InPro 6860 i	InPro 6880 i InPro 6870 i	InPro 6960 i	InPro 6970 i
Biotechnology/Pharma				
Fermentation	•	•	–	–
Brewery				
Yeast propagation	–	–	–	–
CO ₂ recovery	–	–	–	•
CO ₂ conditioning	–	–	–	–
Wort aeration	–	–	•	–
Filtration	–	–	•	•
Filling	–	–	–	•
Mineral water and soft drinks				
Spring water conditioning	–	–	–	–
Filling	–	–	–	•
Fruit juices and concentrates				
Processing	–	–	–	–
Storage	–	–	–	–

Specifications	InPro 6860 i	InPro 6880 i InPro 6870 i	InPro 6960 i	InPro 6970 i
Measurement principle	optical	optical	optical	optical
Working conditions				
Permissible pressure range during measuring (abs.)	0.2 ... 6 bar 2.9 ... 87 psi	0.2 ... 6 bar 2.9 ... 87 psi	0.2 ... 9 bar 2.9 ... 130 psi	0.2 ... 18 bar 2.9 ... 261 psi
Mech. pressure resistance (absolute)	– max. 6 bar max. 87 psi	– max. 6 bar max. 87 psi	– max. 12 bar max. 174 psi	– max. 18 bar max. 261 psi
Permissible temperature range during measuring	5 ... 60 °C 41 ... 140 °F	5 ... 60 °C 41 ... 140 °F	0 ... 40 °C 32 ... 104 °F	0 ... 40 °C 32 ... 104 °F
Mechanical temperature resistance	–20 ... 140 °C –4 ... 284 °F	6880 i: –20 ... 140 °C –4 ... 284 °F 6870 i: –20 ... 121 °C –4 ... 250 °F	–20 ... 121 °C –4 ... 250 °F	–20 ... 121 °C –4 ... 250 °F
– steam-sterilizable	•	•	•	•
– autoclavable	•	• (InPro 6880 i shaft only) – (InPro 6870 i)	–	–
Sensor performance				
Operating range	8 ppb to 60 % O ₂ saturation	8 ppb to 60 % O ₂ saturation	8 ppb to 60 % O ₂ saturation	2 ppb to 2000 ppb
Accuracy				
– in aqueous media	≤±[1%+8 ppb]	≤±[1%+8 ppb]	≤±[1%+8 ppb]	≤±[1%+2 ppb]
– in liquids containing CO ₂	≤±[1%+8 ppb]	≤±[1%+8 ppb]	≤±[1%+8 ppb]	≤±[1%+2 ppb]

Amperometric Sensors

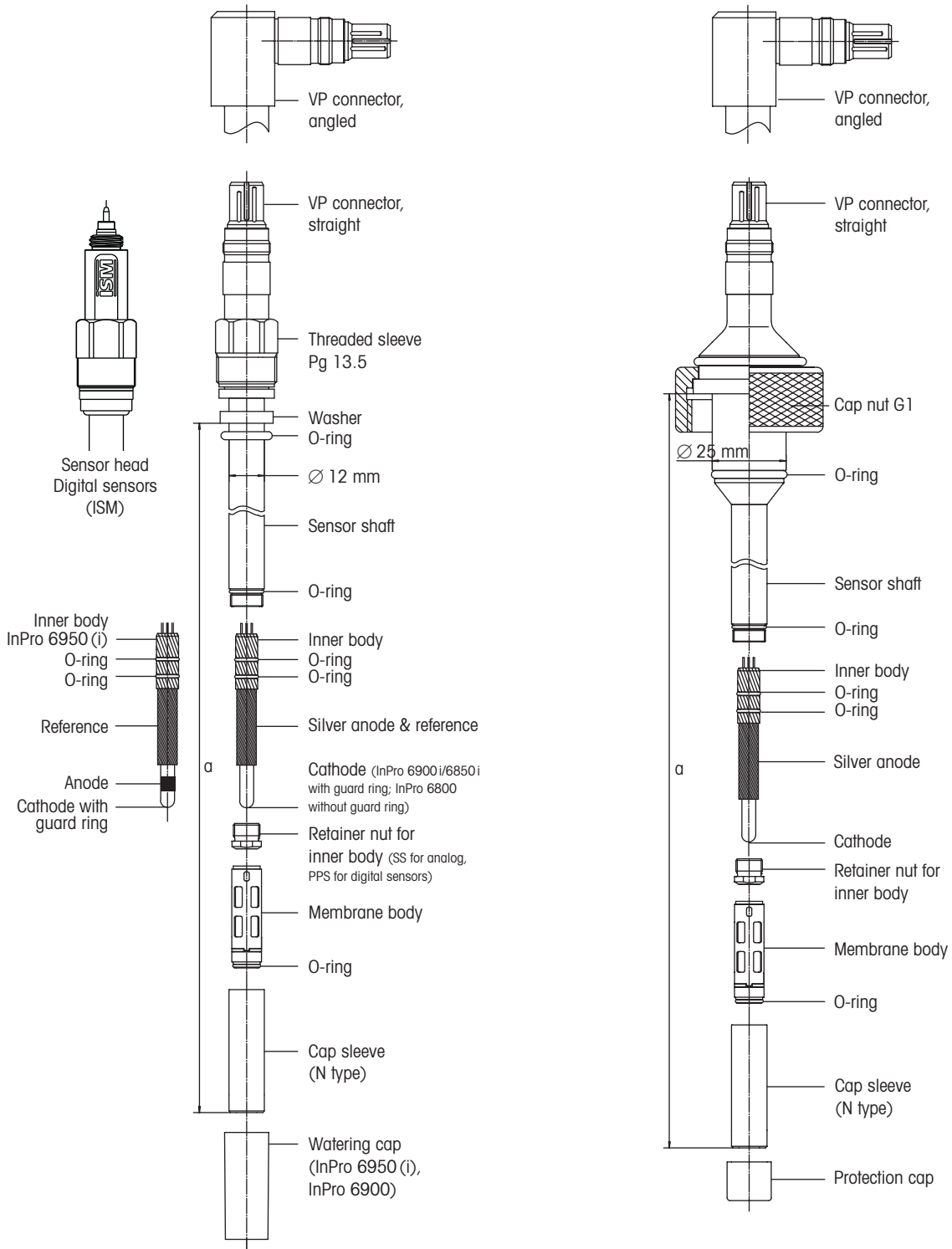
Specifications	InPro 6950 (i)	InPro 6900 (i)	InPro 6800 InPro 6850 i
Response time at 25 °C (77 °F) [air ? N ₂]	t _{98%} < 90 s	t _{98%} < 90 s	t _{98%} < 90 s
Sensor signal in ambient air at 25 °C (77 °F)	2500 ... 6000 nA	290 ... 500 nA	50 ... 110 nA
Residual signal in N ₂ at 25 °C (77 °F) in % of signal in in ambient air	≤ 0.025 %	≤ 0.03 %	≤ 0.1 %
Design features			
Temperature compensation	automatic with built-in RTD		
Cable connection			
– analog	VarioPin (IP 68)	VarioPin or T-82	VarioPin (IP 68)
– digital	K8S (IP 68)	K8S (IP 68)	K8S (IP 68)
Wetted O-rings	Silicone FDA & USP Class VI approved (other materials on request)		
O ₂ selective membrane material	PTFE/Silicone reinforced with steel mesh	PTFE/Silicone reinforced with steel mesh	PTFE/Silicone reinforced with steel mesh
Wetted sensor parts	Silicone	PTFE S/steel 1.4404, [AISI 316L] with material certificate 3.1 (other materials on request)	PTFE
Surface roughness of wetted stainless steel parts (EN 1320: 1996)	N5 (R _a < 0.4 µm / < 16 µin)		
Inner body (exchangeable)	traces with guard ring and reference	low ppb with guard ring	InPro 6800: standard InPro 6850 i: standard with reference
Cathode	Pt	Pt	Pt
Anode	Pt	Ag/AgCl	InPro 6800: Ag/AgCl InPro 6850 i: Pt
Reference	Ag/AgCl	Ag/AgCl	Ag/AgCl
Guard	Pt	Pt	–
ATEX compatibility	II 1/2 Ex ia IIC T6/T5/T4/T3	II 1/2 Ex ia IIC T6/T5/T4/T3	II 1/2 Ex ia IIC T6/T5/T4/T3
FM compatibility	IS CL I, II, III, Div 1/ABCDEFG/T6	IS CL I, II, III, Div 1/ABCDEFG/T6	IS CL I, II, III, Div 1/ABCDEFG/T6
Certificates (MaxCert™)			
Quality Certificate (final inspection)	•	•	•
EHEDG	•	•	•
FDA	•	•	•
USP Class VI	•	•	•
Material Certificate 3.1	•	•	•
Surface Finish Certificate 2.1	•	•	•
ATEX/FM	•	•	•

Optical Sensors

Specifications	InPro 6860 i	InPro 6880 i InPro 6870	InPro 6960 i	InPro 6970 i
Response time at 25 °C (77 °F) [air ? N ₂]	t _{98%} < 70s	t _{98%} < 20s	t _{98%} < 20s	t _{98%} < 20s
Sensor signal in ambient air at 25 °C (77 °F)	phi ₁₀₀ = 15°–35° ¹	phi ₁₀₀ = 15°–35° ¹	phi ₁₀₀ = 15°–35° ¹	phi ₁₀₀ = 11°–18° ¹
Residual signal in N ₂ at 25 °C (77 °F) in % of signal in in ambient air	phi ₀ = 50°–62° ¹	phi ₀ = 50°–62° ¹	phi ₁₀₀ = 55°–71° ¹	phi ₀ = 65°–85° ¹
Design features				
Temperature compensation	automatic with built-in RTD			
Cable connection				
– analog	VP6	–	–	–
– digital	VP8	Data cable 5 pin	Data cable 5 pin	Data cable 5 pin
Wetted O-rings	EPDM, FDA approved	EPDM, FDA approved	EPDM, FDA approved	EPDM, FDA approved
O ₂ selective membrane material	PTFE/Silicone	Silicone	Silicone	Silicone
Wetted sensor parts	PTFE	Silicone S/steel 1.4404, [AISI 316L] with material certificate 3.1 (other materials on request)	Silicone	Silicone
Surface roughness of wetted stainless steel parts (EN 1320: 1996)	N5 (R _a < 0.4 µm / < 16 µin)			
Certificates (MaxCert™)				
Quality Certificate (final inspection)	•	•	•	•
EHEDG	–	–	–	–
FDA	•	•	•	•
USP Class VI	–	–	–	–
Material Certificate 3.1	•	•	•	•
Surface Finish Certificate 2.1	•	•	•	•
ATEX/FM	–	–	–	–

¹ Phase of the fluorescence

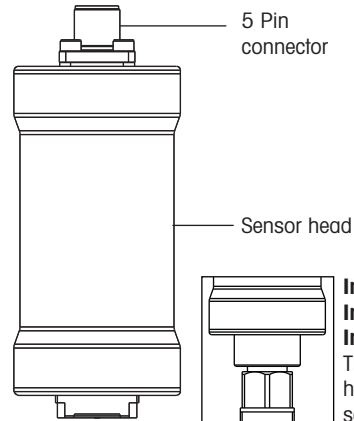
Drawings amperometric sensors



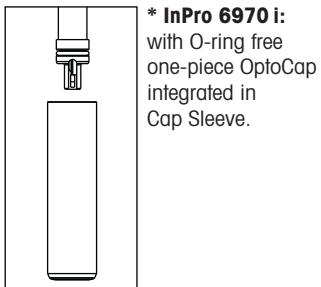
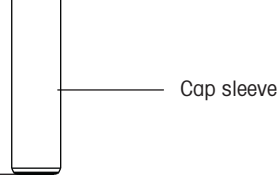
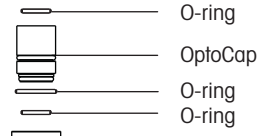
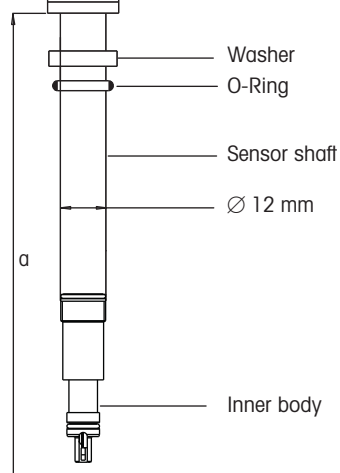
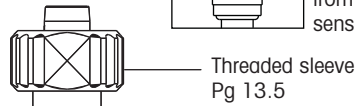
12 mm Sensor
InPro 6800
InPro 6850 i
InPro 6900 (i)
InPro 6950 (i)

25 mm Sensor
InPro 6800
InPro 6850 i

Drawings optical sensors



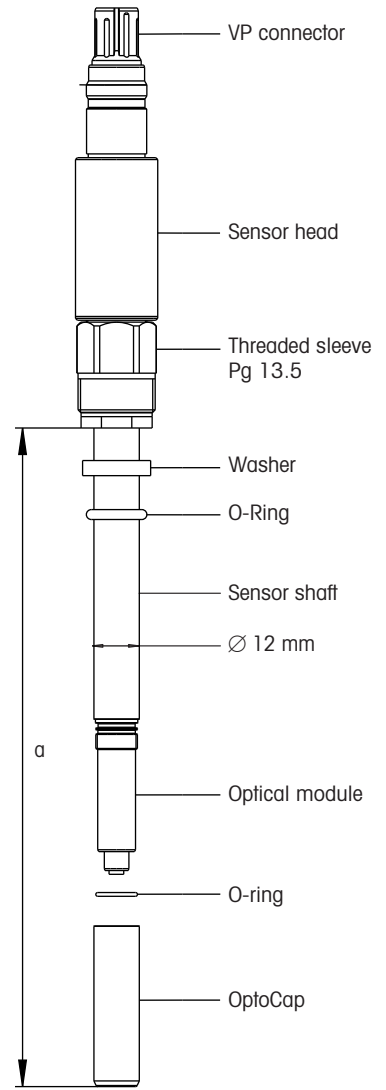
**InPro 6870 i
InPro 6960 i
InPro 6970 i:**
The sensor head is not separable from the sensor shaft.



*** InPro 6970 i:**
with O-ring free one-piece OptoCap integrated in Cap Sleeve.

**12 mm Sensor
InPro 6870 i
InPro 6880 i
InPro 6960 i**

*** InPro 6970 i**



**12 mm Sensor
InPro 6860 i**

Ordering information

Amperometric sensors	InPro 6800, 12 mm ?	Order no.	Order no.	Order no.	Order no.
		VP connector		T82 connector	
Immersion length (a)		straight	angled	straight	angled
70 mm (2.8")	52 200 964	52 200 964	52 200 969	–	–
80 mm (3.2")	–	–	–	–	–
120 mm (4.7")	52 200 965	52 200 965	52 200 970	52 201 012	52 201 016
220 mm (8.7")	52 200 966	52 200 966	52 200 971	52 201 013	52 201 017
320 mm (12.6")	52 200 967	52 200 967	52 200 972	52 201 014	52 201 018
420 mm (16.5")	52 200 968	52 200 968	52 200 973	52 201 015	52 201 019

InPro 6800, 25 mm ?

	VP connector		T82 connector	
Immersion length (a)	straight	angled	straight	angled
80 mm (3.2")	52 200 974	52 200 978	52 201 020	52 201 023
160 mm (6.3")	52 200 975	52 200 979	52 201 021	52 201 024
260 mm (10.2")	52 200 976	52 200 980	52 201 022	52 201 025
360 mm (14.2")	52 200 977	52 200 981	–	–

InPro 6850i

Immersion length (a)	12 mm ?	Immersion length (a)	25 mm ?
70 mm (2.8")	52 206 118	80 mm (3.2")	52 206 123
120 mm (4.7")	52 206 119	160 mm (6.3")	52 206 124
220 mm (8.7")	52 206 120	260 mm (10.2")	52 206 125
320 mm (12.6")	52 206 121	360 mm (14.2")	52 206 126
420 mm (16.5")	52 206 122		

InPro 6900, 12 mm ?

	VP connector		InPro 6900i, 12 mm ?	
			AK9 connector	
Immersion length (a)	straight	angled		
70 mm (2.8")	52 200 944	52 200 947	52 206 316	
120 mm (4.7")	52 200 945	52 200 948	52 206 317	
220 mm (8.7")	52 200 946	52 200 949	52 206 318	
320 mm (12.6")	–	–	52 206 319	

Version with Varivent flange

InPro 6900/12/060 V80	52 200 951	–		
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InPro 6950, 12 mm ?

	VP connector		InPro 6950i, 12 mm ?	
			AK9 connector	
Immersion length (a)	straight	angled		
70 mm (2.8")	52 206 097	52 206 101	70 mm (2.8")	52 206 127
120 mm (4.7")	52 206 098	52 206 102	120 mm (4.7")	52 206 128
220 mm (8.7")	52 206 099	52 206 103	220 mm (8.7")	52 206 129
			320 mm (12.6")	52 206 130

Version with Varivent flange

InPro 6950/12/060 V80	52 206 110	–		
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Optical sensors


for Biopharma


12 mm ?	InPro 6860 i	InPro 6870 i	InPro 6880 i
Immersion length (a)			
120 mm (4.7")	300 141 00	52 206 380	52 206 242
220 mm (8.7")	300 141 01	52 206 381	52 206 243
320 mm (12.6")	300 141 02	52 206 382	52 206 244
420 mm (16.5")	300 141 03	52 206 383	52 206 245


for Food & Beverage


12 mm ?	InPro 6960 i	InPro 6970 i
Immersion length (a)		
120 mm (4.7")	52 206 500	52 206 393
220 mm (8.7")	52 206 501	52 206 394
320 mm (12.6")	52 206 502	52 206 395

Spare parts amperometric sensors


		InPro 6950 (i)	Order no.
Inner body  InPro 6950 (i) InPro 6800	Membrane body InPro 6950 (single unit)		52 206 105
	Membrane kit InPro 6950 (4 membrane bodies, 1 O-ring set, 2 × 5 ml electrolyte)		52 206 106
	Electrolyte InPro 6950 (5 ml)		52 206 111
	Inner body InPro 6950 (exchangeable)		52 206 112


		InPro 6900 (i)	
Membrane body  T-6900R T-96	Membrane body T-6900 (single unit)		52 201 049
	Membrane kit T-6900 (4 membrane bodies, 1 O-ring set, 2 × 5 ml electrolyte)		52 201 003
	Reinforced membrane body T-6900R (single unit)		52 201 108
	Reinforced membrane kit T-6900R (4 reinforced membrane bodies, 1 O-ring set, 2 × 5 ml electrolyte)		52 201 109
	Electrolyte InPro 6900 (5 ml)		52 201 005
	Inner body InPro 6900 (exchangeable)		52 200 943

		InPro 6950 (i)/6900 (i)/6800/6850 i	
Cap sleeve  P type N type	Cap sleeve N type, stainless steel 1.4404 (AISI 316L)		52 200 037
	Cap sleeve N type, stainless steel 1.4435 (AISI 316L)		52 201 153
	Cap sleeve P type, stainless steel 1.4404 (AISI 316L)		52 200 038
	Cap sleeve P type, stainless steel 1.4435 (AISI 316L)		52 201 154

		InPro 6800/6850 i	
Cap sleeve  P type N type	Membrane body T-96 (single unit)		52 200 071
	Membrane kit T-96 (4 membrane bodies, 1 O-ring set, 25 ml electrolyte)		52 200 024
	Membrane body S-96 (single unit)		52 200 072
	Membrane kit S-96 (4 membrane bodies, 1 O-ring set, 25 ml electrolyte)		52 200 025
	Electrolyte 25 ml		34 100 2016
	Inner body InPro 6800 (exchangeable)		52 200 899
	Inner body InPro 6850 i (exchangeable)		52 206 347

Spare parts optical sensors

		InPro 6860 i/6870 i/6880 i	
OptoCap  InPro 6870 i InPro 6860 i InPro 6880 i InPro 6960 i InPro 6970 i	OptoCap BT 01 (InPro 6870 i/ 6880 i)		52 206 225
	OptoCap BT 02T (InPro 6860 i) incl. O-ring		30 018 857
	O-ring set (InPro 6870 i/ 6880 i)		52 206 252
	Cap sleeve, stainless steel 1.4404 (AISI 316L)		52 206 232
	Maintenance cap		52 206 251

		InPro 6960 i/6970 i	
OptoCap  InPro 6870 i InPro 6860 i InPro 6880 i InPro 6960 i InPro 6970 i	OptoCap BW 01 (InPro 6960 i)		52 206 509
	OptoCap BR 01 (InPro 6970 i)		52 206 403
	O-ring set		52 206 252
	Cap sleeve, stainless steel 1.4404 (AISI 316L)		52 206 232
	Maintenance cap		52 206 251

Accessories amperometric sensors

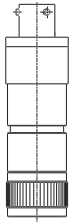


O₂ sensor master

The sensor master serves to polarize the connected sensor in air as well as to check functioning of the sensor. Perfect operation of the sensor master can also be verified through a self-check procedure.

O₂ sensor simulator

The sensor simulator is used to perform a function check of transmitter and cable. It simulates the behavior of the sensor in air and in an oxygen-free medium. This device can be used to simulate all amperometric analog O₂ sensors.



Adapter T-82 bushing/VP connector, order no. 52 200 939



Adapter VP bushing/T-82 connector, order no. 52 200 940

Sensor		Order no.	
O ₂ sensor master InPro 6950		52 206 113	
O ₂ sensor master InPro 6900		52 200 893	
O ₂ sensor master InPro 6800		52 200 892	
O ₂ sensor master ISM		52 206 329	
O ₂ sensor simulator		52 200 891	
Zeroing gel for zero-point control (amperometric sensors only)		34 100 1032	
Adapter T-82 bushing/VP connector		52 200 939	
Adapter VP bushing/T-82 connector		52 200 940	
Retrofit kit optical		52 403 811	
VP cable	Order no.	Order no.	
Temperature range -30 ... 80 °C / -22 ... 176 °F		Temperature range -30 ... 130 °C / -22 ... 266 °F	
VP6-ST/1 m	52 300 107	VP6-HT/1 m	52 300 111
VP6-ST/3 m	52 300 108	VP6-HT/3 m	52 300 112
VP6-ST/5 m	52 300 109	VP6-HT/5 m	52 300 113
VP6-ST/10 m	52 300 110	VP6-HT/10 m	52 300 114
VP6-ST/15 m	52 300 144	VP6-HT/15 m	52 300 237
VP6-ST/35 m	52 300 184		
AK9 coax cables with K8S connector			
1 m (3.3 ft)		10 000 0102	
3 m (9.8 ft)		10 000 0302	
5 m (16.4 ft)		10 000 0502	
10 m (32.8 ft)		10 000 1002	
20 m (65.6 ft)		52 300 204	

Accessories optical sensors

InPro optical DO data cable (InPro 6870i/6880i/6960i/6970i)		Order no.	
Temperature range -30 ... 80 °C / -22 ... 176 °F			
2 m (6.6 ft)		52 300 379	
5 m (16.4 ft)		52 300 380	
10 m (32.8 ft)		52 300 381	
15 m (49.2 ft)		52 300 422	
25 m (82.0 ft)		52 300 529	
50 m (164.0 ft)		52 300 530	
VP cable (InPro 6860i)	Order no.	Order no.	
Temperature range -30 ... 80 °C / -22 ... 176 °F		Temperature range -30 ... 130 °C / -22 ... 266 °F	
VP8-ST/1 m	52 300 353	VP8-HT/1 m	52 300 360
VP8-ST/3 m	52 300 354	VP8-HT/3 m	52 300 361
VP8-ST/5 m	52 300 355	VP8-HT/5 m	52 300 362
VP8-ST/10 m	52 300 356	VP8-HT/10 m	52 300 363
VP8-ST/15 m	52 300 357	VP8-HT/15 m	52 300 364
VP8-ST/20 m	52 300 358		
VP8-ST/35 m	52 300 359		

Accessories amperometric & optical sensors



CalBox

Designation	Order no.
iSense Asset Suite	52 900 336
CalBox	52 300 400
iLink RS485	52 300 399
iLink RS485 – VP (InPro 6860 i)	30 014 134

Compatibility with METTLER TOLEDO transmitters for amperometric sensors

Please ask your local METTLER TOLEDO sales representative.

	InPro 6950 (i)	InPro 6900 (i)	InPro 6800 InPro 6850 i
M700	• (4700 i traces)	• (4700 i ppb)	• (4700 i)
4100 PA, FF	–	• ¹	•
M300	–	–	•
M400	• ²	•	•
M420	• (TAN)	•	•
M800 ²	•	•	•

¹ limited functions, ² ISM sensors only

Compatibility with METTLER TOLEDO housings for amperometric sensors

Please ask your local METTLER TOLEDO sales representative.

Static housings	12 mm ?	25 mm ?
INGOLD "safety weld-in socket"	–	•
InFit 761 series	•	–
Retractable housing		
InTrac 777 e	•	–
InTrac 797 e	•	–
Immersion housing		
InDip 550	•	–

Compatibility with METTLER TOLEDO transmitters for optical sensors

Please ask your local METTLER TOLEDO sales representative.

	InPro 6860 i	InPro 6880 i InPro 6870 i	InPro 6960 i InPro 6970 i
M700	–	–	–
4100 PA, FF	–	–	–
M300	–	–	–
M400	•	•	•
M420	–	–	–
M800	•	•	•

Compatibility with METTLER TOLEDO housings for optical sensors

Please ask your local METTLER TOLEDO sales representative.

Static housings	InPro 6860 i	InPro 6880 i InPro 6870 i	InPro 6960 i InPro 6970 i
INGOLD "safety weld-in socket"	–	–	–
InFit 761 series	•	•	•
Retractable housing			
InTrac 777 e	•	•	•
InTrac 797 e	•	•	•
Immersion housing			
InDip 550	•	–	–
Conversion kit			
Retrofit kit optical	•	•	•

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