

# InPro® 6000 Sensor Series

## Oxygen Measurement Sensors

### Technical Data



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

#### Short description

The InPro O<sub>2</sub> 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 O<sub>2</sub> sensors and measuring systems for the beverages industry, biotechnology and chemical industry.

Outstanding features of the O<sub>2</sub> 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.

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



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Typical applications	InPro 6950 (i)	InPro 6900 (i)	InPro 6800 InPro 6850 i	InPro 6880 i InPro 6870 i	InPro 6960 i	InPro 6970 i
<b>Biotechnology/Pharma</b>						
Fermentation	–	–	•	•	–	–
<b>Brewery</b>						
Yeast propagation	–	–	•	–	–	–
CO <sub>2</sub> recovery	• (after recovery)	–	• (before recovery)	–	–	•
CO <sub>2</sub> conditioning	•	•	–	–	–	–
Wort aeration	–	–	•	–	•	–
Filtration	–	•	–	–	•	•
Filling	–	•	–	–	–	•
<b>Mineral water and Soft drinks</b>						
Spring water conditioning	–	–	•	–	–	–
Filling	–	•	–	–	–	•
<b>Fruit juices and concentrates</b>						
Processing	–	–	•	–	–	–
Storage	–	–	•	–	–	–

Specifications	InPro 6950 (i)	InPro 6900 (i)	InPro 6800 InPro 6850 i	InPro 6880 i InPro 6870 i	InPro 6960 i	InPro 6970 i
<b>Measurement principle</b>	amperometric/polarographic (in accordance with ISO 5814 and EN 25 814)			optical	optical	optical
<b>Working conditions</b>						
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 ... 9 bar 2.9 ... 130 psi using reinforced membrane	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 ... 12 bar 2.9 ... 174 psi
Mech. pressure resistance (absolute)	max. 12 bar max. 174 psi	max. 12 bar max. 174 psi	max. 12 bar max. 174 psi	max. 6 bar max. 87 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	5 ... 60°C 41 ... 140°F	0 ... 40°C 32 ... 104°F	0 ... 40°C 32 ... 104°F
Mechanical temperature resistance	–5 ... 121°C 23 ... 250°F	–5 ... 121°C 23 ... 250°F	–5 ... 140°C 23 ... 284°F	<b>6880 i:</b> –20 ... 140°C –4 ... 284°F <b>6870 i:</b> –20 ... 121°C –4 ... 250°F	–20 ... 121°C –4 ... 250°F	–20 ... 121°C –4 ... 250°F
– steam-sterilizable	•	•	•	•	•	•
– autoclavable	–	–	•	• (InPro 6880 i only, sensor shaft)	–	–

<b>Sensor performance</b>						
<b>Detection limit</b>						
– in aqueous media	0.1 µg/l [0.1 ppb]	1 µg/l [1 ppb]	3 µg/l [3 ppb]	8 µg/l [8 ppb]	8 µg/l [8 ppb]	2 µg/l [2 ppb]
– in liquids containing CO <sub>2</sub>	0.25 µg/l [0.25 ppb]	3 µg/l [3 ppb]	6 µg/l [6 ppb]	8 µg/l [8 ppb]	8 µg/l [8 ppb]	2 µg/l [2 ppb]
<b>Accuracy</b>						
– in aqueous media	≤±[1%+0.1 ppb]	≤±[1%+1 ppb]	≤±[1%+3 ppb]	≤±[1%+8 ppb]	≤±[1%+8 ppb]	≤±[1%+2 ppb]
– in liquids containing CO <sub>2</sub>	≤±[1%+0.25 ppb]	≤±[1%+3 ppb]	≤±[1%+6 ppb]	≤±[1%+8 ppb]	≤±[1%+8 ppb]	≤±[1%+2 ppb]

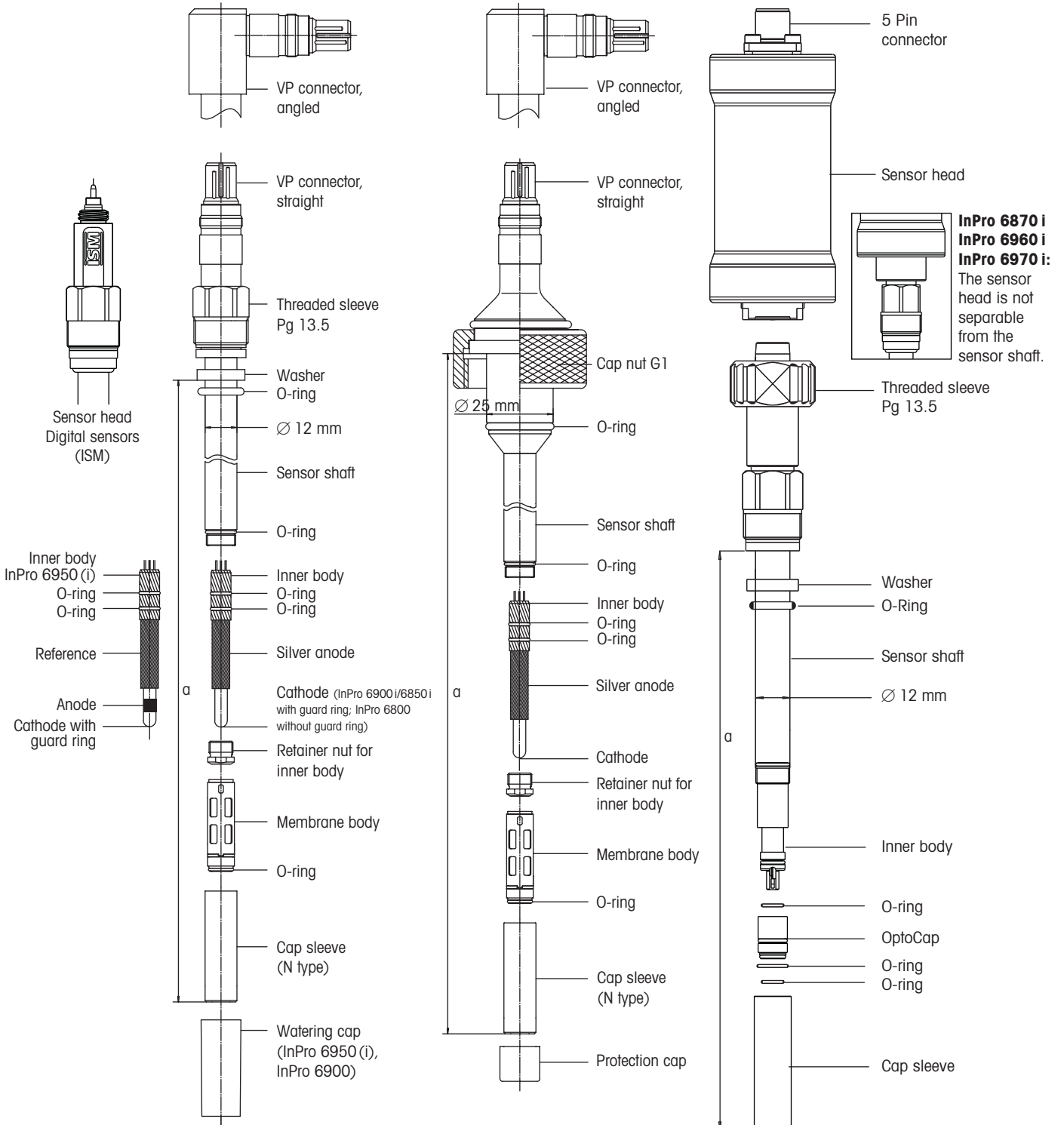
## Oxygen measurement sensors

## InPro 6000 Sensor Series

Specifications	InPro 6950 (i)	InPro 6900 (i)	InPro 6800 InPro 6850 i	InPro 6880 i InPro 6870 i	InPro 6960 i	InPro 6970 i
Response time at 25 °C (77 °F) [air → N <sub>2</sub> ]	t <sub>98%</sub> < 90 s	t <sub>98%</sub> < 90 s	t <sub>98%</sub> < 90 s	t <sub>98%</sub> < 20 s	t <sub>98%</sub> < 20 s	t <sub>98%</sub> < 20 s
Sensor signal in ambient air at 25 °C (77 °F)	2500 ... 6000 nA	290 ... 500 nA	50 ... 110 nA	phi <sub>100</sub> = 15°–35° <sup>1</sup>	phi <sub>100</sub> = 15°–35° <sup>1</sup>	phi <sub>100</sub> = 11°–18° <sup>1</sup>
Residual signal in N <sub>2</sub> at 25 °C (77 °F) in % of signal in in ambient air	≤ 0.025 %	≤ 0.03 %	≤ 0.1 %	phi <sub>0</sub> = 50°– 62° <sup>1</sup>	phi <sub>100</sub> = 55°–71° <sup>1</sup>	phi <sub>0</sub> = 65°– 85° <sup>1</sup>
<b>Design features</b>						
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)	Data cable 5 pin	Data cable 5 pin	Data cable 5 pin
Wetted O-rings	Silicone FDA & USP Class VI approved (other materials on request)			EPDM, FDA approved	EPDM, FDA approved	EPDM, FDA approved
O <sub>2</sub> selective membrane material	Teflon/Silicone reinforced with steel mesh	Teflon/Silicone reinforced with steel mesh	Teflon/Silicone reinforced with steel mesh	Silicone	Silicone	Silicone
Wetted sensor parts	S/steel 1.4404, [AISI 316L] with material certificate 3.1 (other materials on request)					
Surface roughness of wetted stainless steel parts (EN 1320: 1996)	R <sub>a</sub> < 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	–	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 <sup>2</sup>	II 1/2 Ex ia IIC T6/T5/T4	II 1/2 Ex ia IIC T6/T5/T4	–	–	–
FM compatibility	IS CL I, Div 1, GR ABCD <sup>2</sup>	IS CL I, Div 1, GR ABCD	IS CL I, Div 1, GR ABCD	–	–	–
<b>Certificates (MaxCert™)</b>						
Quality Certificate (final inspection)	•	•	•	•	•	•
EHEDG	•	•	•	–	–	(pending)
FDA	•	•	•	•	•	•
USP Class VI	•	•	•	–	–	–
Material Certificate 3.1	•	•	•	•	•	•
Surface Finish Certificate 2.1	•	•	•	•	•	•
ATEX/FM	• (–)	•	•	–	–	–

<sup>1</sup> Phase of the fluorescence <sup>2</sup> InPro 6950 only

Drawings



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

**25 mm Sensor**  
**InPro 6800**  
**InPro 6850 i**

**12 mm Sensor**  
**InPro 6870 i**  
**InPro 6880 i**  
**InPro 6960 i**  
**InPro 6970 i**

Ordering information

<b>InPro 6800, 12 mm Ø</b>				
	VP connector		T82 connector	
Immersion length (a)	straight	angled	straight	angled
70 mm (2.8")	52 200 964	52 200 969	–	–
80 mm (3.2")	–	–	–	–
120 mm (4.7")	52 200 965	52 200 970	52 201 012	52 201 016
220 mm (8.7")	52 200 966	52 200 971	52 201 013	52 201 017
320 mm (12.6")	52 200 967	52 200 972	52 201 014	52 201 018
420 mm (16.5")	52 200 968	52 200 973	52 201 015	52 201 019
<b>InPro 6800, 25 mm Ø</b>				
	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	–	–
<b>InPro 6850i</b>				
Immersion length (a)	12 mm Ø	Immersion length (a)	25 mm Ø	
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			
<b>InPro 6900, 12 mm Ø</b>			<b>InPro 6900i, 12 mm Ø</b>	
	VP connector		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	–		
<b>InPro 6950, 12 mm Ø</b>			<b>InPro 6950i, 12 mm Ø</b>	
	VP connector		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	–		
<b>Optical sensors, 12 mm Ø</b>				
	<b>InPro 6870i</b>	<b>InPro 6880i</b>	<b>InPro 6960i</b>	<b>InPro 6970i</b>
Immersion length (a)				
120 mm (4.7")	52 206 380	52 206 242	52 206 500	52 206 393
220 mm (8.7")	52 206 381	52 206 243	52 206 501	52 206 394
320 mm (12.6")	52 206 382	52 206 244	52 206 502	52 206 395
420 mm (16.5")	52 206 383	52 206 245	–	–

**Compatibility with METTLER TOLEDO transmitters**

Please ask your local METTLER TOLEDO sales representative.

	InPro 6950 (i)	InPro 6900 (i)	InPro 6800 InPro 6850 i	InPro 6880 i InPro 6870 i	InPro 6960 i InPro 6970 i
M700	• (4700 i traces)	• (4700 i ppb)	• (4700 i)	–	–
4100 PA, FF	–	• <sup>1</sup>	•	–	–
M300	–	–	•	–	–
M400	–	•	•	•	•
M420	• (TAN)	•	•	–	–

<sup>1</sup> limited functions

**Compatibility with METTLER TOLEDO housings**

Please ask your local METTLER TOLEDO sales representative.

Static housings	12 mm Δ	25 mm Δ	InPro 6880 i InPro 6870 i	InPro 6960 i InPro 6970 i
INGOLD "safety weld-in socket"	–	•	–	–
InFit 761 series	•	–	•	•
<b>Retractable housing</b>				
InTrac 777 e	•	–	•	•
InTrac 797 e	•	–	•	•
<b>Immersion housing</b>				
InDip 550	•	–	–	–
<b>Conversion kit</b>				
Retrofit kit optical	–	–	•	•

**Accessories**

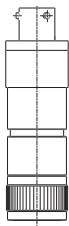


**O<sub>2</sub> sensor master**

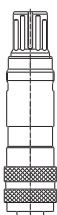
The sensor master serves to polarize the connected sensor in air as well as to check functioning of the sensor. Perfect operation of the sensor master can also be verified through a self-check procedure.

**O<sub>2</sub> 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 O<sub>2</sub> 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 <sub>2</sub> sensor master InPro 6950	52 206 113
O <sub>2</sub> sensor master InPro 6900	52 200 893
O <sub>2</sub> sensor master InPro 6800	52 200 892
O <sub>2</sub> sensor master ISM	52 206 329
O <sub>2</sub> 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.
Temperature range –30 ... 80 °C / –22 ... 176 °F	Order no.
VP6-ST/1 m	52 300 107
VP6-ST/3 m	52 300 108
VP6-ST/5 m	52 300 109
VP6-ST/10 m	52 300 110
VP6-ST/15 m	52 300 144
VP6-ST/35 m	52 300 184
Temperature range –30 ... 130 °C / –22 ... 266 °F	Order no.
VP6-HT/1 m	52 300 111
VP6-HT/3 m	52 300 112
VP6-HT/5 m	52 300 113
VP6-HT/10 m	52 300 114
VP6-HT/15 m	52 300 237

InPro optical DO data cable	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)	52 206 422
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

Spare parts

Inner body



InPro 6950 (i) InPro 6800

InPro 6950 (i)	Order no.
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

Membrane body

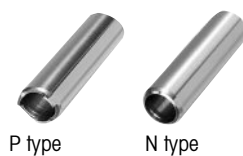


T-6900R T-96

InPro 6900 (i)	Order no.
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	Order no.
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

Cap sleeve



P type N type

InPro 6800/6850 i	Order no.
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

OptoCap



InPro 6870 i/6880 i	Order no.
OptoCap BT 01	52 206 225
O-ring set	52 206 252
Cap sleeve, stainless steel 1.4404 (AISI 316L)	52 206 232
Maintenance cap	52 206 251

InPro 6960 i/6970 i	Order no.
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

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Management System  
certified according to  
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Printed in Switzerland. 52 206 266

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