

# InPro 2000 (i) For the Most Extreme Requirements



InPro 2000

InPro 2000i/SG

The InPro 2000 (i) is a combination pH electrode with an integral temperature sensor designed for highly demanding applications. Three liquid electrolytes are available adding versatility; 3M KCl is a classic electrolyte offering high flow for improved junction cleaning, Viscolyt™ has limited flow for reduced maintenance needs, and Friscolyt™ is ideal for process media with high protein or organic solvent content, and in low temperatures. Applications range from biotechnical processes requiring in-situ sterilization to dirty industrial processing chemicals.

### Specifications

pH range	0 – 14 pH
Temperature	0 to 140 °C (32 to 284 °F)
Operating pressure	0 to 6 barg, 0 to 87 psig (in pressurized housing)
Cable connection	ISM: K8S; Analog: VP
Process connection	METTLER TOLEDO Housing Adapter
Reference system	Argenthal with silver-ion trap
Type of junction	Ceramic junction
Reference electrolyte	Selectable; 3M KCl, Viscolyt, or Friscolyt
Lengths	120 mm, 150 mm, 250 mm, 450 mm
Lower shaft diameter	12 mm
Temperature sensor	ISM: Digital; Analog: Pt 100 or Pt 1000
Sterilizable	Yes
Autoclavable	Yes
pH membrane	High alkali glass (HA)

**Certificates and Approvals** METTLER TOLEDO Quality Certificate, Pressure Equipment Directive guidelines (PED) 97/23/EC, ATEX: Ex ia IIC T6/T5/T4/T3 Gα/Gb, FM: IS Cl. I, II, III, Div 1, GR ABCDEFG/T6

### Intelligent Sensor Management (ISM)

pH electrodes with integrated ISM functionality allow Plug and Measure and advanced diagnostics. ISM simplifies the installation, handling and maintenance of measurement equipment. For more information see ISM introduction pages 10–11.

### Features Overview

- User-selectable reference solution allows optimum compatibility with process media
- Flowing liquid electrolyte ensures fast response and accurate pH measurement
- Silver-ion trap prevents sulfide poisoning of junction
- Refillable electrolyte extends operational life
- Domed glass membrane impedes bubble formation for greater reliability
- Watertight connector (IP68)
- Integral temperature sensor, more accurate temperature compensation
- ATEX and FM certification for hazardous areas

▶ [www.mt.com/InPro2000](http://www.mt.com/InPro2000)

## Ordering Information

ISM Electrodes	Length	Electrolyte	Temp. Signal	Order Number
InPro 2000i/SG	120 mm	3M KCl	Digital	52 003 521
InPro 2000i/SG	150 mm	3M KCl	Digital	30 068 948
InPro 2000i/SG	250 mm	3M KCl	Digital	30 068 949
InPro 2000i/SG	450 mm	3M KCl	Digital	30 069 160
InPro 2000i/SG	120 mm	Viscolyt	Digital	52 003 522
InPro 2000i/SG	150 mm	Viscolyt	Digital	52 003 523
InPro 2000i/SG	250 mm	Viscolyt	Digital	52 003 524
InPro 2000i/SG	450 mm	Viscolyt	Digital	52 003 525
InPro 2000i/SG	120 mm	Friscolyt	Digital	52 003 526
InPro 2000i/SG	150 mm	Friscolyt	Digital	52 003 527
InPro 2000i/SG	250 mm	Friscolyt	Digital	52 003 528
InPro 2000i/SG	450 mm	Friscolyt	Digital	52 003 529
<b>Analog Electrodes</b>				
InPro 2000	120 mm	Viscolyt	Pt 100	52 001 426
InPro 2000	120 mm	Viscolyt	Pt 1000	52 001 427
InPro 2000	250 mm	Viscolyt	Pt 100	52 001 428
InPro 2000	250 mm	Viscolyt	Pt 1000	52 001 429
InPro 2000	450 mm	Viscolyt	Pt 100	52 001 738
InPro 2000	450 mm	Viscolyt	Pt 1000	52 001 792
InPro 2000	120 mm	3M KCl	Pt 100	52 001 430
InPro 2000	120 mm	3M KCl	Pt 1000	52 001 431
InPro 2000	250 mm	3M KCl	Pt 100	52 001 432
InPro 2000	250 mm	3M KCl	Pt 1000	52 001 433
InPro 2000	450 mm	3M KCl	Pt 100	52 001 794
InPro 2000	450 mm	3M KCl	Pt 1000	52 001 777
InPro 2000	120 mm	Friscolyt	Pt 100	52 001 434
InPro 2000	120 mm	Friscolyt	Pt 1000	52 001 435
InPro 2000	250 mm	Friscolyt	Pt 100	52 001 436
InPro 2000	250 mm	Friscolyt	Pt 1000	52 001 437
InPro 2000	450 mm	Friscolyt	Pt 100	52 001 655
InPro 2000	450 mm	Friscolyt	Pt 1000	52 001 666

### InPro 2000 (i) Electrolytes

To cope optimally with the conditions prevailing in different types of chemical processes, a wide variety of electrolytes is available:

#### 9816 Viscolyt

Mostly frequently used CP electrolyte with limited outflow and therefore long refill intervals.

#### 9823 KCl

Classic electrolyte with high electrolyte outflow for improved diaphragm cleaning.

#### 9848 Friscolyt

Used for media with proteins/organic solvent content.

### Did You Know

The InPro 2000 (i) is the next generation of the 465 style electrode featuring temperature compensation and VP connection. For other connectors and styles, the 465 also is available. For further information please contact your local sales organization.

Suitable Housings	p.
InFit 763 e.....	112
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