

InPro® 4010

The combined pH/temperature electrode
for industrial wastewater processes

Technical Data



InPro 4010

Short description

METTLER TOLEDO offers a pressure-resistant, low maintenance electrode with built-in temperature sensor for universal use in industrial wastewater processes. The polymer reference electrolyte XEROLYT™ is in direct contact with the medium via an open junction (no clogging) which makes this electrode suitable for use in heavily contaminated liquid media. The electrode is particularly suitable for applications in inlet and outflow channels, neutralization tanks, secondary settlers, aeration basins, rainwater catchments, or in pipes and conduits.

- Low maintenance due to the solid polymer electrode reference system, XEROLYT™, and the open annular junction (no clogging)
- Simultaneous pH and temperature measurement for higher performance and enhanced process safety
- The electrode is ruggedly built to withstand rough handling; the shaft is made of strong polymer material
- The robust, watertight, detachable connector VarioPin (VP) offers excellent shielding against external electrical influences on the measurement signal, and consequently highest process safety.

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METTLER TOLEDO

Specifications

Measuring range	pH 2...12
Temperature range	0...60 °C (32...140 °F)
Pressure resistance	2 bar (60 °C) or 29 psi (140 °F)
Reference system	solid polymer, XEROLYT™ containing KCl
Diaphragm	open junction (with direct contact between process medium and reference system)
Shaft	Ø 12 mm (0.47")
Shaft material	PSU (polysulfone)
Plug head	VarioPin (VP)
VP connector	IP 68

Ordering information

pH-electrodes	Electrode length [a]	Order no.	Suitable housings
InPro4010/120	120 mm (4.70")	52 000 510	InFit 761 InFlow 751 InDip 550
InPro4010/120/Pt 100	120 mm (4.70")	52 000 511	InFit 761 InFlow 751 InDip 550
InPro4010/120/Pt 1000	120 mm (4.70")	52 000 512	InFit 761 InFlow 751 InDip 550

Cables (open ends)

Standard temperature (-20...80 °C)	Order no. VP6-ST/3 m	Order no. VP6-ST/5 m	Order no. VP6-ST/10 m
	52 300 108	52 300 109	52 300 110

High temperature (-30...140 °C)	Order no. VP6-HT/3 m	Order no. VP6-HT/5 m	Order no. VP6-HT/10 m
	52 300 112	52 300 113	52 300 114

Buffer solutions

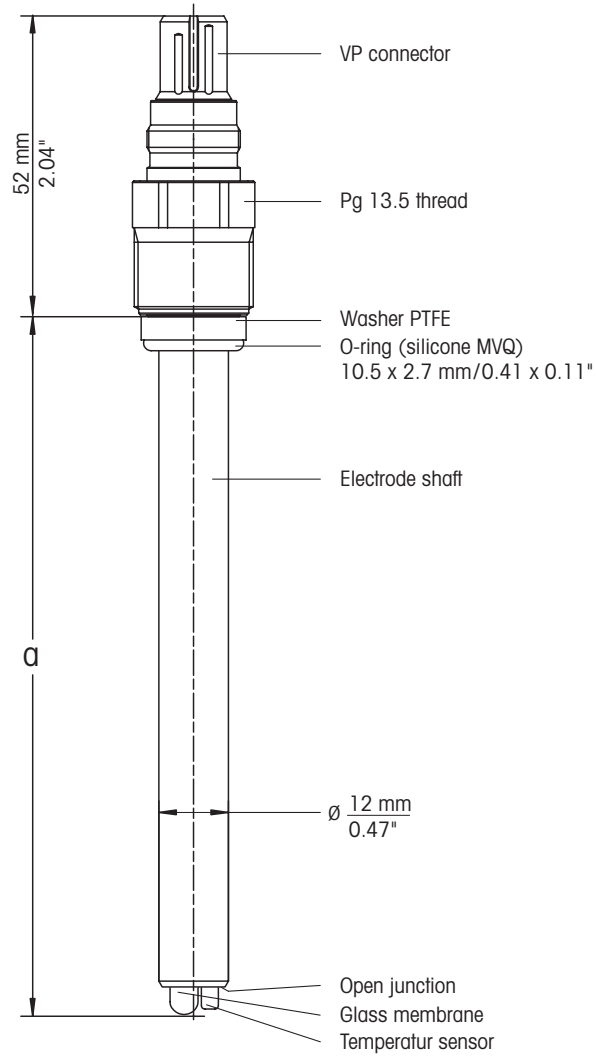
Solution	Order no. 1 x 250 ml	Order no. 6 x 250 ml	Order no. 1 x 1000 ml
Buffer pH=4.01 (red)	51 340 057	51 340 058	51 340 228
Buffer pH=7.00 (green)	51 340 059	51 340 060	51 340 229
Buffer pH=9.21 (blue)	51 300 193	51 300 194	51 340 230
Friscolyt™ conditioning solution	51 340 053		

Transmitters

A wide range of transmitters can be offered to complete the METTLER TOLEDO/INGOLD measurement system, including a 4 wire version for universal AC/DC power supply, or alternatively in 2-wire versions, with or without HART® or Profibus® communication, in standard or explosion-proof (EEx) design.

Drawing

InPro 4010



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