

InPro® 4550 VP

The new combined pH/temperature electrode with robust PPS shaft for higher temperature and pressure conditions

Technical data



InPro 4550 VP

Short description

METTLER TOLEDO now offers its new, rugged InPro 4550 VP electrode with PPS shaft, incorporating the improvements brought about by the successful XEROLYT® PLUS polymer reference system. This electrode is ideal for applications with very high temperature and pressure conditions. The InPro 4550 with VP connector, provides the following advantages, where also direct mounting and robust design of the electrode are extra appreciated:

- Covers a broader range of applications in chemical process industry.
- The polymer electrode is especially designed for high process pressures and temperatures, with a special resistant polymer shaft material (PPS) and high-temperature glass quality.
- Low maintenance due to the solid polymer references system and due to the open annular junction.
- No mechanical breakage of the electrode due to the PPS polymer body with a slotted tip for protection of the glass membrane.
- ATEX and FM approved for use in hazardous areas.
- Polymer material (PPS), highly resistant to chemicals.
- Dual 1" NPT threads allow the sensor to be screwed directly into immersion tubes, pipes, process vessels etc.
- Particularly suitable for heavily contaminating and sulfide-bearing media.
- Higher measurement performance over the complete pH range 0...14.
- Integrated temperature sensor positioned inside the glass membrane part offers improved performance.
- Solution ground with enhanced function, now also allowing electrode diagnostics.
- Special connector design with a metallic material to eliminate electro-magnetic interference from external sources.

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METTLER TOLEDO

Specifications

Measuring range	pH 0...14
Temperature	0...130 °C or 32...266 °F
Pressure resistance	0...8 bar at 130 °C 0...116 psi at 266 °F
Reference system	XEROLYT PLUS polymer incl. KCl
Diaphragm	open annular junction with direct contact with medium
Shaft	material: Polymer PPS GF40 (polyphenylene sulfide with 40% glass fibre)
Connector	VarioPin (VP) IP 68
Solution ground	Titanium

Ordering information

pH electrodes

VP connector:	Order number
InPro 4550VP/Pt 100/SG	52 002 401
InPro 4550VP/Pt 1000/SG	52 002 402

Accessories

Protective sleeve*	Order number
1" NPT complete	52 401 808

* protects the VP connector from any mechanical damage



Cables (open ends) – only for VP connector

Standard temperature (-20...80 °C)	Order number VP6-ST/3 m	Order number VP6-ST/5 m	Order number VP6-ST/10 m
	52 300 108	52 300 109	52 300 110
High temperature (-30...140 °C)	Order number VP6-HT/3 m	Order number VP6-HT/5 m	Order number VP6-HT/10 m
	52 300 112	52 300 113	52 300 114

Buffer solutions

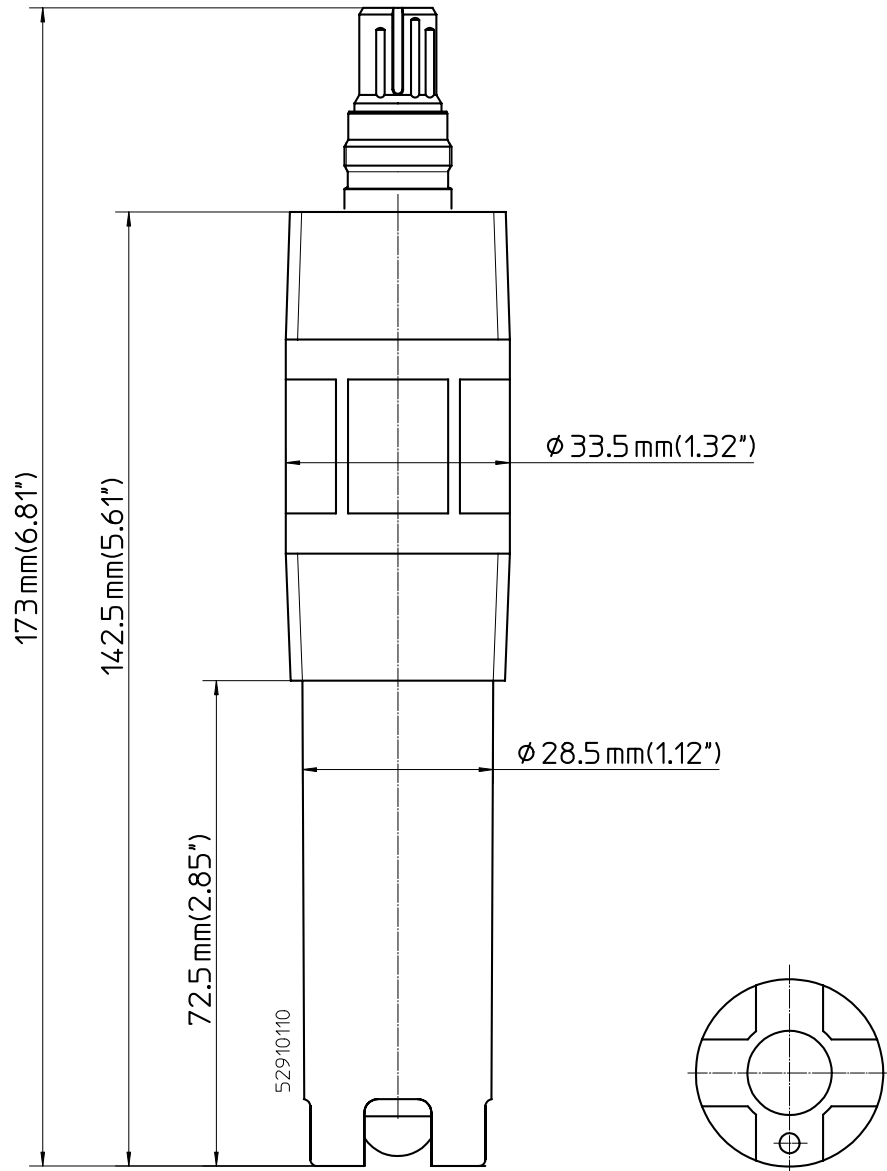
Solution	Order number 1 × 250 ml	Order number 6 × 250 ml	Order number 1 × 1000 ml
Buffer pH = 4.01 (red)	51 340 057	51 340 058	51 340 228
Buffer pH = 7.00 (green)	51 340 059	51 340 060	51 340 229
Buffer pH = 9.21 (blue)	51 300 193	51 300 194	51 340 230
Friscolyt™ conditioning solution	51 340 053		

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, of standard or explosion-proof (Ex) design.

Drawing

InPro 4550 VP



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