

# InPro® 4550 VP

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

## Technical data

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InPro 4550 VP

### Short description

METTLER TOLEDO now offers its new, rugged InPro4550VP 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 InPro4550 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.
- Certified for use in hazardous areas: ATEX II 1/2 G EEx ia II C T6/T5/T4, SNCH 00 ATEX 3130X, FM approval: IS CL I Div1, GR ABCD,
- 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) IP68
Solution ground	Titanium

Ordering information

pH electrodes

VP connector:	Order no.
InPro 4550VP/Pt 100/SG	52 002 401
InPro 4550VP/Pt 1000/SG	52 002 402

Accessories

Protective sleeve*	Order no.
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 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		

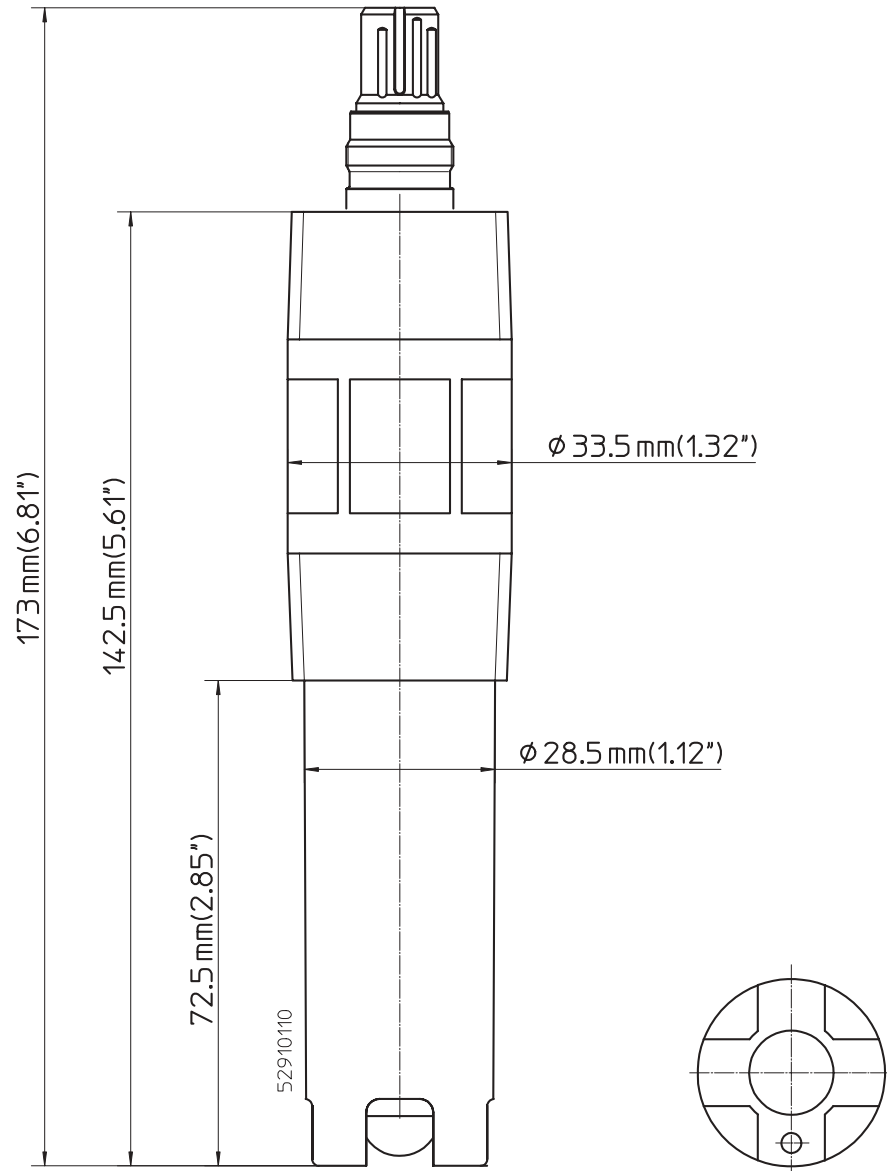


Transmitters

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

Drawing

InPro 4550 VP



## METTLER TOLEDO Market Organizations

### Sales and Service:

#### Australia

Mettler-Toledo Ltd.  
220 Turner Street  
Port Melbourne  
AUS-3207 Victoria  
Phone +61 39 644 57 00  
Fax +61 39 645 39 35  
e-mail mtausprocess@mt.com

#### Austria

Mettler-Toledo GmbH  
Favoritner Gewerbering 17  
A-1100 Wien  
Phone +43 1 604 19 80  
Fax +43 1 604 28 80  
e-mail infoprocess.mtat@mt.com

#### Brazil

Mettler-Toledo Ind. e Com. Ltda.  
Alameda Araguaia  
451 - Alphaville  
BR-06455-000 Barueri/SP  
Phone +55 11 4166 74 00  
Fax +55 11 4166 74 01  
e-mail sales@mettler.com.br  
service@mettler.com.br

#### China

Mettler-Toledo Instruments  
(Shanghai) Co. Ltd.  
589 Gui Ping Road  
Cao He Jing  
CN-200233 Shanghai  
Phone +86 21 64 85 04 35  
Fax +86 21 64 85 33 51

#### Croatia

Mettler-Toledo d.o.o.  
Mandlova 3  
HR-10000 Zagreb  
Phone +385 1 292 06 33  
Fax +385 1 295 81 40  
e-mail mt-zagreb@mt.com

#### Czech Republic

Mettler-Toledo spol s.r.o.  
Trebohosticka 2283/2  
CZ-100 00 Praha 10  
Phone +420 2 72 123 150  
Fax +420 2 72 123 170  
e-mail sales.mtcz@mt.com

#### Denmark

Mettler-Toledo A/S  
Naverland 8  
DK-2600 Glostrup  
Phone +45 43 27 08 00  
Fax +45 43 27 08 28  
e-mail info.mtdk@mt.com

#### France

Mettler-Toledo  
Analyse Industrielle Sàrl  
30, Boulevard de Douaumont  
BP 949  
F-75829 Paris Cedex 17  
Phone +33 1 47 37 06 00  
Fax +33 1 47 37 46 26  
e-mail mtpro-f@mt.com

#### Germany

Mettler-Toledo GmbH  
Prozeßanalytik  
Ockerweg 3  
D-35396 Gießen  
Phone +49 641 507 333  
Fax +49 641 507 397  
e-mail prozess@mt.com

#### Great Britain

Mettler-Toledo LTD  
64 Boston Road, Beaumont Leys  
GB-LE4 1AW Leicester  
Phone +44 116 235 7070  
Fax +44 116 236 5500  
e-mail enquire.mtuk@mt.com

#### Hungary

Mettler-Toledo Kereskedelmi KFT  
Teve u. 41  
HU-1139 Budapest  
Phone +36 1 288 40 40  
Fax +36 1 288 40 50

#### India

Mettler-Toledo India Private Limited  
Amar Hill, Saki Vihar Road  
Powai  
IN-400 072 Mumbai  
Phone +91 22 2857 0808  
Fax +91 22 2857 5071  
e-mail sales.mtin@mt.com

#### Italy

Mettler-Toledo S.p.A.  
Via Vialba 42  
I-20026 Novate Milanese  
Phone +39 02 333 321  
Fax +39 02 356 2973  
e-mail customercare.italia@mt.com

#### Japan

Mettler-Toledo K.K.  
Process Division  
5F Tokyo Ryutsu Center, Annex B  
6-1-1 Heiwajima, Ohta-ku  
JP-143-0006 Tokyo  
Phone +81 3 5762 07 06  
Fax +81 3 5762 09 71  
e-mail helpdesk.ing.jp@mt.com

#### Malaysia

Mettler-Toledo (M) Sdn Bhd  
Bangunan Electrocon Holding  
Lot 8 Jalan Astaka U8/84  
Seksyen U8, Bukit Jelutong  
MY-40150 Shah Ahm Selangor  
Malaysia  
Phone +60 3 78 45 57 73  
Fax +60 3 78 45 87 73  
e-mail ahmad.rashid@mt.com

#### Mexico

Mettler-Toledo S.A. de C.V.  
Pino No. 350, Col. Sta.  
MA. Insurgentes, Col Atlampa  
MX-06450 México D.F.  
Phone +52 55 55 47 57 00  
Fax +52 55 55 41 22 28  
e-mail mario.roca@mt.com

#### Poland

Mettler-Toledo (Poland) Sp.z.o.o.  
ul. Iwonicka 39  
PL-02-924 Warszawa  
Phone +48 22 651 92 32  
Fax +48 22 651 71 72  
e-mail polska@mt.com

#### Russia

Mettler-Toledo ZAO  
Sretenskij Bulvar 6/1  
Office 6  
RU-101000 Moscow  
Phone +7 095 921 92 11  
Fax +7 095 921 63 53  
+7 095 921 78 68  
e-mail inforus@mt.com

#### Singapore

Mettler-Toledo (S) Pte. Ltd.  
Block 28  
Ayer Rajah Crescent #05-01  
SG-139959 Singapore  
Phone +65 6890 00 11  
Fax +65 6890 00 12  
+65 6890 00 13  
e-mail ashley.kong@mt.com

#### Slovakia

Mettler-Toledo s.r.o.  
Bulharska 61  
SK-82104 Bratislava  
Phone +421 743 42 74 96  
Fax +421 743 33 71 90  
e-mail predaj@mt.com

Slovenia  
Mettler-Toledo d.o.o.  
Peske 12  
SI-1236 Trzin  
Phone +386 1 530 80 50  
Fax +386 1 562 17 89  
e-mail cipot@mtslo.mt.com  
racman@mettler-toledo.si

#### Spain

Mettler-Toledo S.A.E.  
C/ Miguel Hernández, 69-71  
ES-08908 L'Hospitalet de Llobregat  
(Barcelona)  
Phone +34 93 223 76 00  
Fax +34 93 223 76 01  
e-mail montserrat.santalices@mt.com

#### South Korea

Mettler-Toledo (Korea) Ltd.  
Yeil Building 1 & 2 F  
124-5, YangJe-Dong  
SeCho-Ku  
KR-137-130 Seoul  
Phone +82 2 3498 3500  
Fax +82 2 3498 3555  
e-mail Sales\_MTKR@mt.com

#### Sweden

Mettler-Toledo AB  
Virkesvägen 10  
Box 92161  
SE-12008 Stockholm  
Phone +46 8 702 50 00  
Fax +46 8 642 45 62  
e-mail sales.mts@mt.com

#### Switzerland

Mettler-Toledo (Schweiz) AG  
Im Langacher  
Postfach  
CH-8606 Greifensee  
Phone +41 44 944 45 45  
Fax +41 44 944 45 10  
e-mail info.ch@mt.com  
info.ola.ch@mt.com

#### Thailand

Mettler-Toledo (Thailand) Ltd.  
272 Soi Soonvijai 4  
Rama 9 Rd., Bangkok  
Kuay Kwang  
TH-10320 Bangkok  
Phone +66 2 723 03 00  
Fax +66 2 719 64 79  
e-mail mettler@samarf.co.th

#### USA/Canada

Mettler-Toledo Ingold, Inc.  
36 Middlesex Turnpike  
Bedford, MA 01730, USA  
Phone +1 781 301 8800  
Toll free +1 800 352 8763  
Fax +1 781 271 0681  
e-mail mtprous@mt.com  
ingold@mt.com



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Mettler-Toledo GmbH, Process Analytics  
Industrie Nord, CH-8902 Urdorf  
Tel. +41 44 736 22 11, Fax +41 44 736 26 36

[www.mtpro.com](http://www.mtpro.com)