

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.

Contents

Specifications	2
Ordering information: pH-electrodes/accessories/cables/pH buffer solutions	2
Compatibility with METTLER TOLEDO transmitters	3
Drawing	3

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

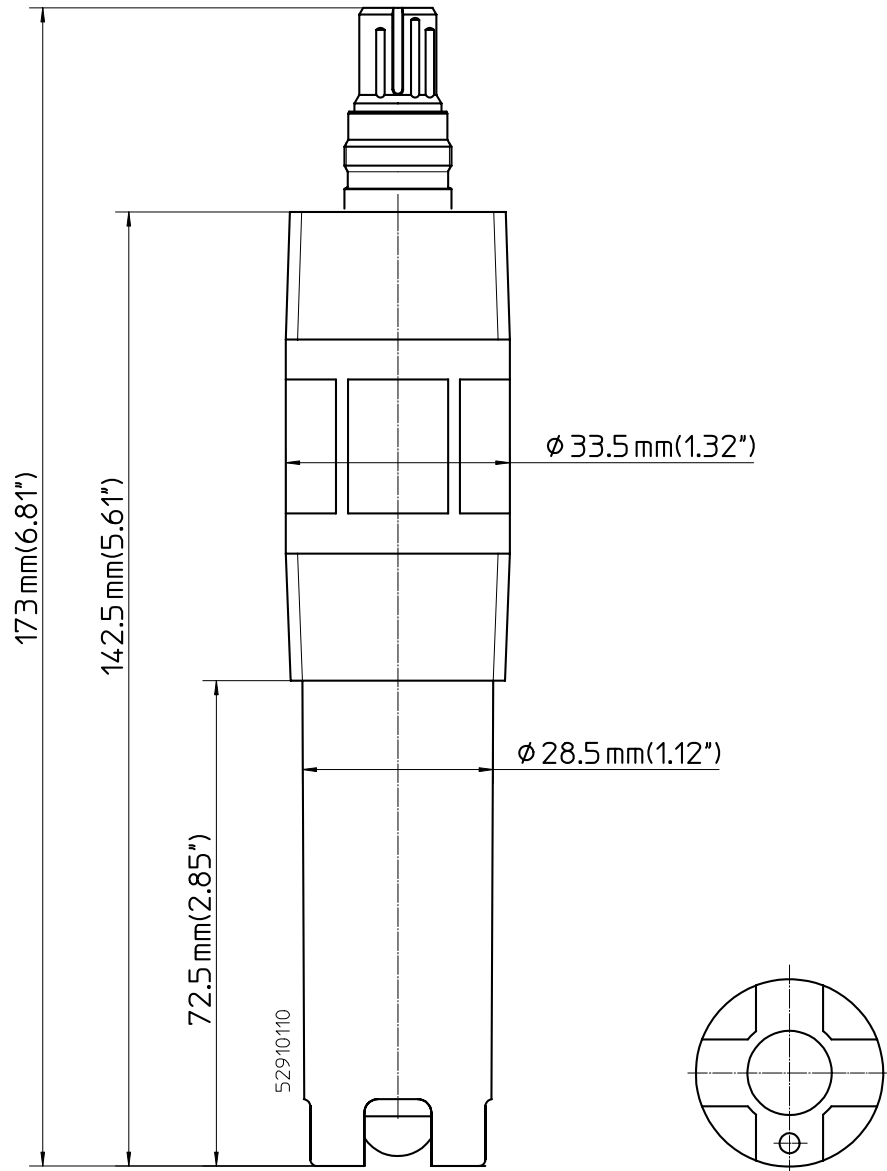
Solution	Order number 1 × 250 ml	Order number 6 × 250 ml	Order number 1 × 1000 ml
Buffer pH = 4.01 (red)	51 340 057	51 340 058	51 340 228
Buffer pH = 7.00 (green)	51 340 059	51 340 060	51 340 229
Buffer pH = 9.21 (blue)	51 300 193	51 300 194	51 340 230
Friscolyt™ conditioning solution	51 340 053		

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



METTLER TOLEDO Market Organizations

Sales and Service:

Australia

Mettler-Toledo Ltd.
220 Turner Street
Port Melbourne
AU-3207 Melbourne/VIC
Phone +61 1300 659 761
e-mail info.mtaus@mt.com

Austria

Mettler-Toledo Ges.m.b.H.
Südstrandstraße 17
AT-1230 Wien
Phone +43 1 604 19 80
e-mail infoprocess.mtat@mt.com

Brazil

Mettler-Toledo Ind. e Com. Ltda.
Avenida Tamboré, 418
Tamboré
BR-06460-000 Barueri/SP
Phone +55 11 4166 7400
e-mail mettler@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
e-mail mtcs@public.sta.net.cn

Croatia

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

Czech Republic

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

Denmark

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

France

Mettler-Toledo
Analyse Industrielle S.A.S.
30, Boulevard de Douaumont
FR-75017 Paris
Phone +33 1 47 37 06 00
e-mail mtpro-f@mt.com

Germany

Mettler-Toledo GmbH
Prozeßanalytik
Ockerweg 3
DE-35396 Gießen
Phone +49 641 507 444
e-mail prozess@mt.com

Great Britain

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

Hungary

Mettler-Toledo Kereskedelmi KFT
Teve u. 41
HU-1139 Budapest
Phone +36 1 288 40 40
e-mail mthu@axelero.hu

India

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

Indonesia

PT. Mettler-Toledo Indonesia
GRHA PERSADA 3rd Floor
Jl. KH. Noer Ali No.3A,
Kayuringin Jaya
Kalimalang, Bekasi 17144, ID
Phone +62 21 294 53919
e-mail
mt-id.customersupport@mt.com

Italy

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

Japan

Mettler-Toledo K.K.
Process Division
6F Ikenohata Nisshoku Bldg.
2-9-7, Ikenohata
Taito-ku
JP-110-0008 Tokyo
Phone +81 3 5815 5606
e-mail helpdesk.ing.jp@mt.com

Malaysia

Mettler-Toledo (M) Sdn Bhd
Bangunan Electroscon Holding, U 1-01
Lot 8 Jalan Astaka U8/84
Seksyen U8, Bukit Jelutong
MY-40150 Shah Alam Selangor
Phone +60 3 78 44 58 88
e-mail
MT-MY.CustomerSupport@mt.com

Mexico

Mettler-Toledo S.A. de C.V.
Ejercito Nacional #340
Col. Chapultepec Morales
Del. Miguel Hidalgo
MX-11570 México D.F.
Phone +52 55 1946 0900
e-mail ventas.lab@mt.com

Norway

Mettler-Toledo AS
Ulvenveien 92B
NO-0581 Oslo Norway
Phone +47 22 30 44 90
e-mail info.mtn@mt.com

Poland

Mettler-Toledo (Poland) Sp.z.o.o.
ul. Poleczki 21
PL-02-822 Warszawa
Phone +48 22 545 06 80
e-mail polska@mt.com

Russia

Mettler-Toledo Vostok ZAO
Sretenskij Bulvar 6/1
Office 6
RU-101000 Moscow
Phone +7 495 621 56 66
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
e-mail precision@mt.com

Slovakia

Mettler-Toledo s.r.o.
Hattalova 12/A
SK-831 03 Bratislava
Phone +421 2 4444 12 20-2
e-mail predaj@mt.com

Slovenia

Mettler-Toledo d.o.o.
Pot heroja Trtnika 26
SI-1261 Ljubljana-Dobrunje
Phone +386 1 530 80 50
e-mail keith.racman@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
e-mail Sales_MTKR@mt.com

Spain

Mettler-Toledo S.A.E.
C/Miguel Hernández, 69-71
ES-08908 L'Hospitalet de Llobregat
(Barcelona)
Phone +34 902 32 00 23
e-mail mtemkt@mt.com

Sweden

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

Switzerland

Mettler-Toledo (Schweiz) GmbH
Im Langacher
Postfach
CH-8606 Greifensee
Phone +41 44 944 45 45
e-mail salesola.ch@mt.com

Thailand

Mettler-Toledo (Thailand) Ltd.
272 Soi Soonvijai 4
Rama 9 Rd., Bangkapi
Huay Kwang
TH-10320 Bangkok
Phone +66 2 723 03 00
e-mail
MT-TH.CustomerSupport@mt.com

Turkey

Mettler Toledo
Ölçüm Aletleri Ticaret
Satış ve Servis Hizmetleri A.Ş.
Haluk Türksöy Sokak No: 6 Zemin ve 1.
Bodrum Kat 34662 Üsküdar-İstanbul, TR
Phone +90 216 400 20 20
e-mail sales.mttr@mt.com

USA/Canada

METTLER TOLEDO
Process Analytics
900 Middlesex Turnpike, Bld. 8
Billerica, MA 01821, USA
Phone +1 781 301 8800
Freephone +1 800 352 8763
e-mail mtprous@mt.com



Management System
certified according to
ISO 9001 / ISO 14001

Subject to technical changes.
© Mettler-Toledo AG 10 / 2015
Printed in Switzerland 52 002 397

Mettler-Toledo AG, Process Analytics
Im Hackacker 15, CH - 8902 Urdorf
Tel. +41 44 729 62 11, Fax +41 44 729 66 36

www.mt.com