



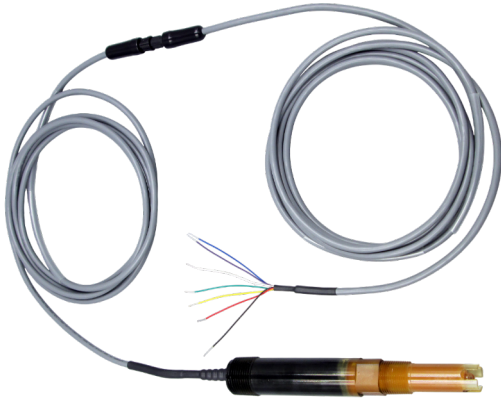
Proven solutions for the toughest process measurements for over 40 years

Inline, Immersion, and Submersible pH and ORP Sensors



Inline, Immersion, and Submersible pH and ORP Sensors

Continuous Measurement for Virtually Any Process or Installation Configuration



RADEL-KYNAR series pH sensor with integral preamplifier and Q7M quick disconnect snap connector interfaced with mating Q7F to tinned leads extension cable (6X31 series). The Q7M / Q7F connector system is rated NEMA 6P when interfaced and suitable for rugged field use.



ASTI's Smart Digital pH Sensor is designed for a wide range of industrial applications at a competitive cost (PN 6053 series shown above). Suitable for Inline and Immersion installations, and fully submersible when equipped with the appropriate waterproof sealing option.

ASTI offers unique solutions for even the most challenging process measurement problems

- Proprietary solid-state pH and ORP sensors are built to order for each application, maximizing lifespan and cost-efficiency
- Base models available for general use, with options to add resistance to ammonia, chlorine, and solvents, high temps, slurries, acids, gases, pulp stock, HF, solvents, and brine
- Additional options provide functionality such as wide pH range and fast-response temp compensation, as well as various cable lengths and tine (protective prong) configurations
- Industry-leading service life achieved through ASTI-exclusive non-porous polymer technology, available in standard double junction or optional triple junction configurations
- The solid-state reference resists dehydration, while the thick-walled glass stands up to rigorous field use without cracking
- These rugged sensors withstand temps from -35 to 150°C, and pressures up to 150 psig in 3/4" MNPT inline use. Performs reliably in pressures up to 200 psig in sanitary style configurations.



Male sensor end of cable snap connector (Q7M)



Snap connectors (Q7M/ Q7F) are NEMA 6P rated when interfaced.



Female snap to tinned leads extension cable (Q7F-Xm-TL)

Sensors with 3/4" and 1" MNPT threads can be waterproofed for Inline, Immersion, or Submersible use.

Most series come standard with 4 protective tines, making them suitable for submersion (except the 2X12, 2X52, 2X51 and 6X11 series). For full submersion, a waterproofing sealing option is recommended. Optional configurations include 2 tines ("GRO") for easier cleaning in buildup-heavy environments and no tines ("NG") to reduce fouling, which are typically used with break-resistant parabolic pH glass tips.

All X3XX series pH sensors come standard with a thick-wall, low-profile, break-resistant parabolic glass element, ideal for slurry and viscous media to extend service life. An optional extreme dehydration-resistant reference allows reliable performance in dry or intermittent conditions, making it suitable for batch processes and variable fluid levels.

Each ASTI sensor installation is customized with the most relevant options based upon a detailed review of the customer's application, ensuring the most suitable and cost-effective sensor at a cost-effective price point.

ASTI pH and ORP sensors are built with a range of materials, from cost-effective CPVC for less challenging conditions to durable options like RADEL® PPSU, KETASPIRE® PEEK, or RYTON® PPS for more demanding process applications. The junction support matrix is available in HDPE, PolyPro (PP) or KYNAR® (PVDF).



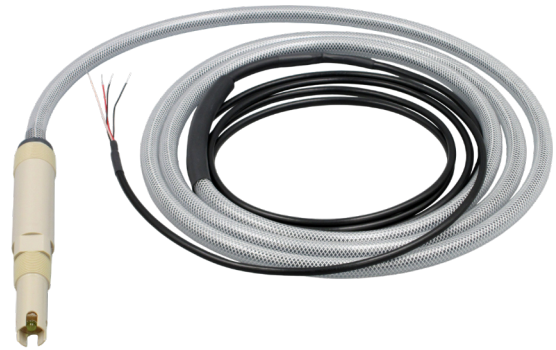
High HF-resistant submersible pH sensor with integral preamplifier (PNHF 6431) using special-order shielded and braid reinforced blue cable for use in high noise areas. Shown with a WPH seal for fully submersible use.

ASTI's Wide Range of Customization Options Benefit Many Applications, such as:

- Reliable measurement in nearly all media, including strong acids or bases
- Acid fluoride etching solutions
- HF waste treatment systems
- High temperatures and pressures.

For example:

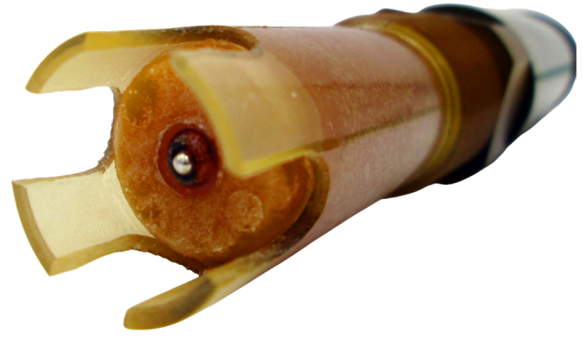
- Ammonium nitrate manufacturing and sugar extraction
- Treatment of discharge from processes employing autoclaves
- Pulp digesters for Kraft mills
- Bleaching lines for white paper mills
- Abrasives and viscous processes
- Extraction of precious metal ore with flotation tanks and concentrators



- Gold extraction circuits with cyanide (batch or continuous)
- Cyanide destruction with peroxide (H_2O_2) or sulfur dioxide (SO_2)
- Presence of dissolved sulfides, such as hydrogen sulfide gas (H_2S), hydrogen sulfide (HS^-), or sulfide ion (S^{2-})
- Solvent extraction (SX) with kerosene and other long chain hydrocarbons
- Measurement in most Volatile Organic Compounds (VOC) and most typically used Organic Solvents
- Bio diesel and ethanol fuels
- Processes employing dissolved chlorine (Cl_2), chlorine dioxide (ClO_2), ammonia (NH_3), sulfur dioxide (SO_2) and nitric oxide (NO) and nitrous oxide (N_2O) sometimes collectively referred to as (NO_x) type gases.
- Municipal and industrial wastewater treatment
- General purpose pH monitoring or control for discharge compliance



Customizable Technical Capabilities of Immersion Series Sensors



- Low pH range down to -0.5 and high pH range up to +14.5.
Measurement of very low and high pH requires special calibration procedures and buffers for best results.
- Low temperatures down to -15 °C
- High temperatures up to +150 °C
- High pressures up to 150 psig with RADEL or PEEK bodied sensors
- Insertion depths up to 6 feet into tank or line with compression fitting assembly installation scheme
- Mining slurries with up to 50% solids and particulates content
- Solids content up to 15% consistency pulp with minimal fouling and cleaning requirements
- Fluorides up to 50,000 ppm
- Support for measurement up to saturation for most dissolved gases up to saturation, such as chlorine, chlorine dioxide, ammonia, sulfide gas extraction
- Cyanide up to 10,000 ppm
- Almost all organic chemical mixtures
 - Minimum ~1% aqueous content required to ensure stable readings
- Clean in Place (CIP) processes with hot acid and base, commonly used in food and beverage (F&B) as well as pharmaceutical sterilization
- Sterilization with hydrogen peroxide (H_2O_2) and ozone (O_3)
- Up to 600% saturation dissolved oxygen (O_2)
- Fully submersible assemblies that can be installed solely by thick reinforced hose tubing sealed on cable
 - For optimal performance, use a suitable immersion tube, standpipe, or guide rod to secure the installation location and minimize mechanical damage.



Selected Sensors to Illustrate Available Configurations and Options



PEEK/KYNAR ORP sensor (6841)

- Organic solvent and gas resistant
- Low-profile platinum disc ORP element is ideal for slurries and high velocity inline process installations



RADEL/KYNAR Series pH sensor (6X31 series)

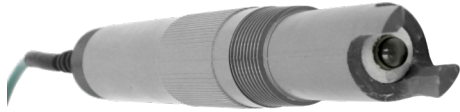
- Excellent chemical, thermal, mechanical properties for multiple uses from one sensor
- Solid-state double or triple junction reference systems for low maintenance



PEEK/KYNAR pH sensor (6741)

- Organic solvent and gas resistant
- Wide range -0.5 to +14.5 MUGG pH glass element for measurements in organic synthesis and solvent recovery

CPVC/HDPE Series pH sensor (6X11)



- Cost-effective for price sensitive applications
- Inline, Immersion or Submersible use
- Available without tines (inline only), 2 each tines ("GRO"), or 4 each tines ("GR")
- Available with PolyPro (PP) junction support matrix
- Available with RYTON sensor body and KYNAR junction with 2X51 series

RYTON/KYNAR Inline pH sensor (2X52)



- No protective tines, minimizing fouling
- Rugged 8MM MUGG pH glass
- Precise readings in cleaner solutions
- Holds calibration for very long periods of time
- Available with PolyPro (PP) junction support matrix
- Available with CVPC sensor body and HDPE junction (2X12 series)

Materials of Construction for Sensor Bodies

ProTherm® Chlorinated Polyvinyl Chloride (CPVC)	2X12, 6X11, 6X13, and 6X12 Series
RADEL® Polyphenylsulfone, PPSU	6X32 and 6X31 Series
KETASPIRE® Polyether ether ketone, PEEK	6X42 and 6X41 Series
RYTON® Polyphenylene sulfone, PPS	2X12, 2X52, 2X51, 6X11, 6X53, 6X54, 6X52, and 6X51 Series

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Categories of pH and ORP Sensors

1. Analog Only Mode – for Retrofit to Existing Meters

ANALOG SENSORS - NO PREAMPLIFIER

Configuration without integral preamplifiers for installations that require no more than 20 ft. (6 m) of cable with 10 ft. (3 m) standard. Cable length for this type cannot be extended.

ANALOG SENSORS WITH PREAMPLIFIER, CONVENTIONAL

Configuration is compatible with instruments from Rosemount Analytical, Knick, and others. Includes 10 ft. (3 m) of cable standard, with optional NEMA 6P snap connector. Max 330 ft. (100 m) total cable length with cable extensions.

ANALOG SENSORS WITH PREAMPLIFIER, 5-WIRE DIFFERENTIAL

Configuration is compatible with instruments from Hach / Great Lakes and others. Includes 10 ft. (3 m) of cable standard, with an optional NEMA 6P snap connector. Max 1,000 ft. (305m) total cable length with cable extensions.

2. Smart Digital Only Mode – for New Installations

SMART DIGITAL SENSORS

Configuration for use with the 3TX-HiQ-pH intelligent transmitter. Includes 20 ft. (6 m) cable standard and a NEMA 6P snap connector. Max 2,000 ft. (610 m) total cable length with optional snap extensions. Supports hot-swap plug & play with last 5 calibration sets.

MODBUS RTU SMART DIGITAL SENSORS

Configuration for direct use with any control system that accepts RS-485 MODBUS RTU devices. Includes 20 ft. (6 m) cable standard and a NEMA 6P snap connector. Max 3,280 ft. (1,000 m) total cable length with optional snap extensions. Optional touchscreen controller available for installations where a local display is desired and/or analog outputs, contact relays, or MODBUS TCP communications are used.

3. DUAL Analog and Smart Digital Mode – Loop Powered – Optimal Choice for Both Retrofit and New Installations

2-WIRE 4-20mA LOOP POWERED OPERATION SENSORS

Compatible with virtually all legacy and modern PLC systems accepting 4–20 mA analog input. Features a scalable and reversible 4–20 mA analog output with simultaneous RS-485 MODBUS RTU digital communication. Scaling and calibration achieved with Handheld Communicator or Windows software, or with commands from a RS-485 MODBUS RTU master device. Installations include a local loop powered display, with optional programmable relays available.

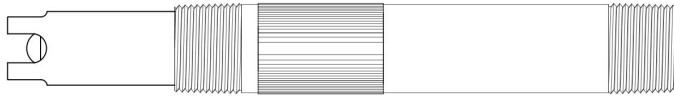
NOTE: All categories of pH and ORP sensors are available for Immersion, Twist Lock, Sanitary, and HOT-TAP valve retractable series.

Sensor Body Dimensional Drawings

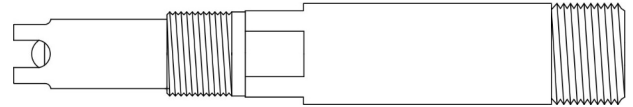
For Inline, Immersion and Submersible Installations

Thread Types: $\frac{3}{4}$ "-1" MNPT and $\frac{3}{4}$ "- $\frac{3}{4}$ " MNPT

$\frac{3}{4}$ "- $\frac{3}{4}$ " MNPT



$\frac{3}{4}$ "-1" MNPT



Hemispherical pH Glass Element

High Temp and Ultra-High Temp Resistant:

$\frac{3}{4}$ "-1": 6151 / 6131 / 6141 / 6231 / 6241

$\frac{3}{4}$ "- $\frac{3}{4}$ ": 6132 / 6142 / 6154 / 6232 / 6242

Hydrogen Sulfide and Sulfide Ion Resistant:

$\frac{3}{4}$ "-1": 6651 / 6631 / 6641

$\frac{3}{4}$ "- $\frac{3}{4}$ ": 6632 / 6642 / 6654

Saturated Sodium (Brine) Resistant:

$\frac{3}{4}$ "-1": 6952 / 6951 / 6931 / 6941

$\frac{3}{4}$ "- $\frac{3}{4}$ ": 6912 / 6913 / 6932 / 6942 / 6953 / 6954

Low-Profile Platinum Disc Style ORP Element

Oxidation Reduction Potential (ORP):

$\frac{3}{4}$ "-1": 6852 / 6851 / 6831 / 6841

$\frac{3}{4}$ "- $\frac{3}{4}$ ": 6812 / 6813 / 6832 / 6842 / 6853 / 6854

NOTE: The configurations listed on this page come standard with 4 tines, with options available for 2 or zero tines.

General Purpose and Wide Range Resistant:

$\frac{3}{4}$ "-1": 6052 / 6051 / 6031 / 6041

$\frac{3}{4}$ "- $\frac{3}{4}$ ": 6012 / 6013 / 6032 / 6042 / 6053 / 6054

Acid, Fluoride and HF Resistant:

$\frac{3}{4}$ "-1": 6452 / 6451 / 6431 / 6441

$\frac{3}{4}$ "- $\frac{3}{4}$ ": 6412 / 6413 / 6432 / 6442 / 6453 / 6454

Aggressive Dissolved Gas and Solvent Resistant:

$\frac{3}{4}$ "-1": 6731 / 6741

$\frac{3}{4}$ "- $\frac{3}{4}$ ": 6732 / 6742

Low-Profile Parabolic Break-Resistant pH Glass

Slurry and Viscous Media Resistant:

$\frac{3}{4}$ "-1": 6352 / 6351 / 6331 / 6341

$\frac{3}{4}$ "- $\frac{3}{4}$ ": 6312 / 6313 / 6332 / 6342 / 6353 / 6354

Pulp and Paper Resistant:

$\frac{3}{4}$ "-1": 6551 / 6531 / 6541

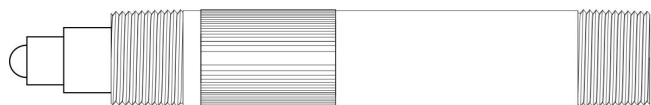
$\frac{3}{4}$ "- $\frac{3}{4}$ ": 6532 / 6542 / 6554

Sensor Body Dimensional Drawings – Compact Junction

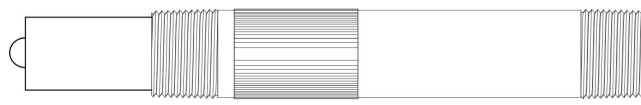
For Inline, Immersion and Submersible Installations

Thread Types: 3/4"-3/4" MNPT

6X11 / 2X51 Series



2X12 / 2X52 Series



Hemispherical pH Glass Element

Saturated Sodium (Brine) Resistant:

6-3: 6911 / 2951 Series

6-9: 2912 / 2952 Series

Acid, Fluoride, and HF Resistant:

6-3: 6411 / 2451 Series

6-9: 2412 / 2452 Series

General Purpose and Wide Range Resistant:

6-3: 6011 / 2051 Series

6-9: 2012 / 2052 Series

Low-Profile Parabolic Break-Resistant pH Glass

Slurry and Viscous Media Resistant:

6-4: 6311 / 2351 Series

6-10: 2312 / 2352 Series

Low-Profile Platinum Disc Style ORP Element

Oxidation Reduction Potential (ORP):

6-3-Pt: 6811 / 2851 Series

6-9-Pt: 2812 / 2852 Series

Note re: 6X11 and 2X51 Sensors Series come standard with no tines. Order with a 4 or 2 tine option ("GR" or "GRO") if the sensor is used for Immersion or Submersible installations.

Note re: 2X12 and 2X52 Series Sensors: Immersion or Submersible installations for these series require a separate removable CPVC protective guard to be installed to protect from breakage while in use or during maintenance. Inquire to factory for details about these items.

Inline, Immersion, and Submersible Sensor Selection Guide

3/4"-1" MNPT Series Product Line

Sensor Description	RYTON® PPS (Large HDPE Junction)	RYTON® PPS (Large KYNAR® or PP Junction)	RADEL® PPSU (Large KYNAR® or PP Junction)	KETASPIRE® PEEK (Large KYNAR® or PP Junction)
General Purpose	6052	6051	6031	6041
High Temperature Resistant	N/A	6151	6131	6141
Ultra High Temperature Resistant	N/A	N/A	6231	6241
Slurry & Viscous Material Resistant	6352	6351	6331	6341
Acid, Fluoride & HF Resistant	6352	6451	6431	6441
Paper & Pulp Resistant	N/A	6551	6531	6541
Sulfide Resistant	N/A	6651	6631	6641
Aggressive Dissolved Gas & Volatile Organic Solvent Resistant	N/A	N/A	6731	6741
Oxidation Reduction Potential a.k.a. ORP	6852	6851	6831	6841
Saturated Sodium (Brine) Resistant	6952	6951	6931	6941

NOTE: Wrench flats are standard on 3/4"-1" MNPT sensors for secure installation without damaging the sensor. Avoid over-tightening during setup or maintenance. Contact ASTI for information about best practice installation before commissioning.

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Inline, Immersion, and Submersible Sensor Selection Guide

3/4" - 3/4" MNPT Series Product Line

Sensor Description	RYTON® PPS (Large HDPE Junction)	RYTON® PPS (Large KYNAR® or PP Junction)	RADEL® PPSU (Large KYNAR® or PP Junction)	KETASPIRE® PEEK (Large KYNAR® or PP Junction)
General Purpose	6053	6054	6032	6042
High Temperature Resistant	N/A	6154	6132	6142
Ultra High Temperature Resistant	N/A	N/A	6232	6242
Slurry and Viscous Material Resistant	6353	6354	6332	6342
Acid, Fluoride & HF Resistant	6453	6454	6432	6442
Paper & Pulp Resistant	N/A	6554	6532	6542
Sulfide Resistant	N/A	6654	6632	6642
Aggressive Dissolved Gas and Volatile Organic Solvent Resistant	N/A	N/A	6732	6742
Oxidation Reduction Potential, a.k.a. ORP	6853	6854	6832	6842
Saturated Sodium (Brine) Resistant	6953	6954	6932	6942

NOTE: Knurls are standard on 3/4"-3/4" MNPT sensors for secure installation without damaging the sensor. Avoid over-tightening during setup or maintenance. Contact ASTI for information about best practice installation before commissioning.

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Inline, Immersion, and Submersible Sensor Selection Guide

3/4" - 3/4" MNPT CPVC and RYTON Series Product Lines

Sensor Description	Compact HDPE or PolyPro (PP)	Compact KYNAR® Junction	Large HDPE Junction	Large KYNAR® or PP Junction
General Purpose	2012 / 2052	6011 / 2511	6013	6012
High Temperature Resistant	2152	2151	N/A	N/A
Slurry and Viscous Material Resistant	2312 / 2352	6311 / 2351	6313	6312
Acid, Fluoride, and HF Resistant	2412 / 2452	6411 / 2451	6413	6412
Paper and Pulp Resistant	2552	2551	N/A	6512
Sulfide Resistant	2652	2651	N/A	6612
Oxidation Reduction Potential, a.k.a. ORP	2812 / 2852	6811 / 2851	6813	6812
Saturated Sodium (Brine) Resistant	2912 / 2952	6911 / 2951	6913	6912

NOTES:

- 2X12 and 6X11 series sensors come standard with CPVC sensor bodies. RYTON (PPS) is available as an option (adding "PPS" as a prefix to the part number). The standard compact junction support matrix is HDPE, with PP as an option (adding "PP" to the end of the part number).
- 2X52 and 2X51 series sensors come standard with RYTON (PPS) sensor bodies and KYNAR material for the compact junction support matrix. No material of construction substitutions are available on these sensor series.
- 6X13 and 6X12 series sensors come standard with CPVC as the sensor body material. If RYTON is preferred, please order the 6X53 or 6X54 series sensors instead.
- Immersion or Submersible installations for 6X11 or 2X51 sensor series require that either the 'GR' or 'GRO' option (adding 4 each or 2 each times) is applied to avoid breakage during field use of maintenance operations such as cleaning and re-calibration.
- Immersion or Submersible installations for 2X12 or 2X52 sensor series require that a separate removable CPVC protective guard is installed to protect from breakage during use or maintenance. Please inquire to factory for details about this item.

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Inline, Immersion, and Submersible Standard Features and Select Options

- All 6X52 / 6X51 / 6X31 / 6X41 and 6X12 / 6X13 / 6X32 / 6X42 / 6X53 / 6X54 sensors are supplied standard (by default) with (4) each protective tines ('GR').
- All 6X11 and 2X51 series sensors are supplied standard (by default) without any protective tines (no guard).
- The 2X12 and 2X52 series sensors are only for ¾" NPT inline installations, unless the external removable guard is employed.
- A fast temperature compensation response is recommended for inline installations subject to variable temperature conditions. Select the ACCU-TEMP option when ordering.
- Waterproofing options are available for all Inline and Immersion sensors when used for submersible installations.
- All pH sensors or ORP sensors may be mounted from rear using the ¾" or 1" MNPT threads in Immersion installations.
- Sensors with integral preamplifiers can be supplied with the rugged heavy-duty Q7M / Q7F waterproof snap quick disconnect cabling system.

APPENDIX "A"

Custom Applications	Alpha Prefix
Dissolved Gas Resistant	A or C
Organic Media Applications	L
Teflon Silicone Required	TS
Triple Junction	TJ
High-Level HF Resistant	HF
ACCU-TEMP(TM) Option for Fast Temperature Response	X
Low Impedance Glass	Z

Custom Applications	Alpha Prefix
Extreme Dehydration Resistant	E
3-wire TC	M
316SS or Hastelloy C-276 Solution Ground Addition	Y
Platinum Solution Ground Addition	Pt
Platinum Solution Ground; 2 each half-cells on 2 channels/transmitter	PtD
No guard configuration (without tines)	NG
Add/Reduce to 2 each Protective Tines	GRO

Replacement pH and ORP Sensor Compatibility Guide

For transmitters that support and/or require integrated preamplifiers

The instruments listed below require and/or support integrated preamplifiers. Sensors to mate with these OEM transmitters are supplied with the appropriate integrated pH temperature compensation element, solution ground, and OEM-compatible high-impedance CMOS operational amplifier (a.k.a. preamplifier) as may be required to ensure full compatibility and optimal performance.

Rosemount Analytical	Foxboro (Schneider Electric)
LEGACY: 1050, 1181, 1055, 2081, 3081, 81, 54pH, 54epH, XMT, 6081 MODERN: 1056, 1057, 56, 1066, 5081, 1058	LEGACY: 870IT MODERN: 875PH, 876PH, 873PH, 873DPX
Honeywell (Leeds & Northrup)	Electro-Chemical Devices
LEGACY: 7003, 7075, 7076, 7079, 7081, 7082, 7083, 7084, 7096, 9782 MODERN: UDA2182, APT2000PH, APT4000PH	LEGACY: T60, T21, T27, T29, T30, C22 MODERN: T23, T28

For transmitters that DO NOT support integrated preamplifiers

The instruments listed below do not support preamplifiers. Sensors to mate with these OEM transmitters are supplied with the appropriate temperature compensation and/or solution ground signals to ensure compatibility.

Endress+Hauser	ABB (Bailey)
LEGACY: CPM152, CPM280, CPM431 MODERN: CPM153, CPM223, CPM253	LEGACY: TB515, TBN580, TB701/702, 4630, 4631, 4635, 4636, AX416, AX436, AX468, AX460, AX466 MODERN: AX460, AX416, AX436, APA592, TB82PH, TB84PH
Mettler Toledo	Knick
LEGACY: 1120, 1140, 2050, 2100, 2220, 2400, 2500, 2800X, 2056e, pH 2100-PA, pH 2100e MODERN: M200, M300, M400, M700, M800	LEGACY: Eco 2402 MODERN: Stratos Evo, Stratos Pro A2 pH, Stratos Pro 4A pH, Stratos Eco 2405 pH, Stratos 2201 pH, Stratos Stratos 2211 pH, Modbus 3400/401-pH, Stratos Multi pH/4010 IDS

Replacement pH and ORP Sensors - Limited Compatibility Guide

Supported Hardware with Some Known Issues – With Integrated Preamplifiers

Sensors to mate with these OEM transmitters are supplied with the appropriate preamplified integrated temperature compensation element, solution ground, and OEM-compatible amplifier. Full compatibility may not be guaranteed depending on model/configuration.

Rosemount Analytical	GF (Georg Fischer Signet)
<p>LEGACY: 1054, 1054A, 1054B, 1055</p>	<p>LEGACY: 710, 2720, 9030, 9040, 8710, 5700</p> <p>MODERN: 9900, 8900, 8750</p>
<p>HACH (Great Lakes Instruments)</p>	
<p>LEGACY: 33, 53, 60, 62, 63, 70, 88, 90, 95, 570, 670, 671, 690, 691, 692, P33, P63</p> <p>MODERN: s1792, s1794, PRO-P3 GLI PRO series, SC200</p>	

Supported Hardware with Some Known Issues – Without Integrated Preamplifiers

Sensors for the following OEM transmitters are supplied with appropriate elements to ensure compatibility. Some minor issues may still be encountered in select configurations.

Yokogawa Electric (Johnson Yokogawa Controls)
<p>LEGACY: pH/ORP 200, pH/ORP 400, pH/ORP 202, pH/ORP 402, pH150, pH100, OR100</p> <p>MODERN: PH450G, PH202G</p>

PLEASE NOTE:

- ASTI offers pH and ORP sensors compatible with the transmitters listed above as an alternative to mating OEM pH and ORP sensors.
- Most of the pH/ORP transmitters listed also have both contacting conductivity and toroidal (inductive contactless) conductivity transmitter counterparts. ASTI can also supply alternative sensors to the OEM sensor models.
- This is not a complete list of the supported OEM pH and ORP transmitters, analyzers, and controllers to which ASTI can retrofit or replace pH, ORP, and conductivity sensors. **PLEASE INQUIRE FOR COMPATIBILITY INFORMATION ABOUT ANY INSTRUMENTATION NOT LISTED HERE.**
- All ASTI pH, ORP, and Ion selective (ISE) sensors are of course compatible with our own 2TX, 3TX and 4TX transmitters.



Proven solutions for the toughest process measurements for over 40 years

Contact Information

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Upstate New York

Manufacturing Custom Built to Order Measurement Solutions

Analog sensors and Smart Digital pH, ORP, Dissolved Oxygen (D.O.), Ion Selective (ISE) and Conductivity (EC) sensors for the Industrial Internet of Things (IIoT). Our smart digital sensors support direct integration with customer PLC, DCS, and SCADA for inline, immersion, submersible, sanitary & HOT-TAP valve retractable installations.

Interface sensors directly via RS-485 MODBUS RTU or MODBUS TCP (Modbus over Ethernet) with advanced menu-driven multi-channel touchscreen controllers with full remote access capabilities for HMI and remote download of logged data over FTP.

Ready To Inquire About Your Application?

To help us determine the best ASTI solution to meet your measurement and control needs, please visit the link at the bottom of the page and fill out the form as completely as possible. We look forward to the opportunity to assist you.