

**IOTRON™ Custom built-to-order
Smart Digital pH & ORP Sensors
for Intelligent 3TX-HiQ-pH Digital
Transmitters for Easy Commissioning:**

**Smart Digital pH & ORP Sensors and
Intelligent Digital pH/ORP Transmitters**



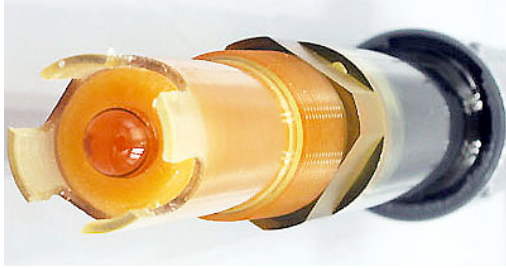
**ZEUS™ Off-the-Shelf Typically Ships
from Stock Analog & Smart Digital pH
Sensors for Severe Service, High-Temp
& High-Pressure Process Applications:**

ZEUS™ pH SENSORS



- Simplify commissioning & maintenance with smart digital plug and play sensors & intelligent digital transmitters
- Robust NEMA 6P rated snap connector makes exchange of sensors quick and easy for any field installation
- Calibration values are automatically loaded when sensor is connected without any user action required
- Complete transmitter configuration can be downloaded or uploaded to smart digital sensor for cloning of transmitter setup, backup and/or reverting to prior setup
- Tracks initial installation & last date in use, as well as total service time. All diagnostic and traceability information is stored inside digital sensor to facilitate best practice management of inventory, usage and procurement
- Rugged Thick 1"-1.25" MNPT pH sensors with RADEL sensor body housing for inline, immersion & submersible installations
- For slurry/viscous abrasives, sulfides, high-temperature, dissolved chlorine & ammonia gas, and compatible with most organic solvents
- Recommended for use in severe service use and tough process installations.
- Continuous use up to 200 psig inline pressure & 150 degrees Celsius
- Available in analog configurations without preamplifiers and with integral conventional or differential preamplifiers
- Available in smart digital configuration for use with 3TX-HiQ-pH intelligent transmitters for both pH & ORP measurements

IMMERSION pH & ORP SENSORS



- Rugged line of 3/4"-3/4" & 3/4"-1" MNPT pH & ORP sensors for inline, immersion and fully submersible installation types in a wide range of plastic body housing materials
- Sensors are built to order and customized for specific application use
- Options include slurry/viscous, sulfide, high-temperature, dissolved chlorine and ammonia gas, and organic solvent resistant for severe service use.
- Support for up to 150 psig pressure and 150 degrees Celsius conditions

TWIST LOCK pH & ORP SENSORS



- Twist lock configuration offers convenient insertion and removal from process with quick disconnect bayonet style installation
- Twist lock pH & ORP sensors are available with all the same features and options as immersion sensor series for support of the same severe service applications
- Twist lock receptacle available in KYNAR (PVDF) as shown above & PEEK (not shown) materials of construction are compatible with most any possible install. Sealing "O"-rings come standard in Viton-75 with CV75 Simriz 485 or Kalrez 4079 as optional upgrades.

HOT-TAP VALVE RETRACTABLE



- Rugged HOT-TAP valve retractable design allows for safe use at high pressure & temperatures with an insertion depth up to 41 inches.
- Available in 1.5 inch and 2.0 inch full port assembly versions. Robust blow-out protection standard and watertight insertion tube assembly.
- 316SS standard with alternate materials of construction upon request. Viton or Kalrez "O"-rings for sealing.
- Ideal for plants with installations that cannot be shut down for sensor insertion or removal and process systems where a slip-stream bypass is not possible.

SANITARY pH & ORP SENSORS



- Sanitary pH & ORP sensors with solid-state reference technology are ideal for aggressive food and beverage processes requiring chemical clean-in-place (CIP) support.
- Solid state reference is resistant to dehydration, chemicals, gases and other process conditions.
- Thick wall glass is resistant to cracking, even under high temperature and pressure conditions.
- Available with special "EXTREME" reference system to support prolonged exposure to dry conditions and for intermittent operation.
- Accurate pH glass well suited for measurements requiring a high degree of precision.