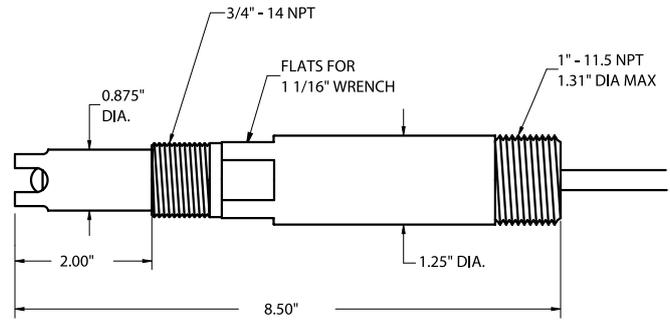


pH & ORP Sensor NICKEL



There is perhaps no other sensor that we are more known for than our Nickel pH/ORP Sensor which has been used in Nickel extraction and refining process (HPAL) for more than 20 years.

Ammonia injection and solvent extraction are two critical components of nickel extraction in process environments. Dissolved gas ingress into the sensing elements of sensors is a common cause of premature sensor failure. Solvent extraction also presents some unique challenges to pH and ORP measurement, as the presence of organic solvents will dissolve many common materials of construction while the small water volumes in the extraction process frequently present very extreme measurements.

The TT-Ni-pH Nickel pH & ORP Sensor utilises special body plastics and sealants to resist solvent attack and our sensing elements are protected from dissolved ammonia gas ingress through triple junction references and high impedance glass electrodes. Optionally, additional cable isolation can be added to provide more resistance to the electrical components of the sensors. The sensor is rated to above 150psi allowing the sensor to perform its task in high-pressure acid leach and solvent extraction environments.

This sensor is available with our Direct Smart Sensor technology.

GENERAL SPECIFICATIONS



Type	Analogue
Part Number	TT-Ni-pH
pH Range	0 to 14 pH
Temperature Range	-5°C to 135°C
Pressure	6.9 to 1035 kPa absolute (1 to 150 psig)
Body type	RADEL (Poly-Phenyl-Sulfone) with 3/4" Front End - 1" MNPT Back End MNPT
Junction material	KYNAR (Poly-Vinylidene-Fluoride)
Dimensions	216mm Length, Maximum Diameter 33.3mm
Cable length	7.5 Metres
Temperature Compensation	Pt1000
Preamplifier	None
Waterproofing	Immersion, Submersible
Connection	Tinned Leads
Special Features	Acid/Fluoride/Sulphide Resistant, Triple Junction, Fast Response TC
Options	Direct Smart Sensor (-DSS) , Oxidation-Reduction Potential (-ORP), Preamplifier (-P), Quick Connect Plug (-QCA), Teflon Silicone Sealing (-TS), Water Protection (-WP)
Analyser / Interface	All Turtle Tough pH & ORP Non-Preamp Analogue Analysers

