

Specifications – Digital pH Sensor for Gold

General Specifications	
Description	Digital pH Sensor for Gold
Part Number	TT-Au-pH-2101D
pH Range	0 to 14 pH
Temperature Range	-5 to 105°C
Pressure	6.9 to 345 kPa absolute (1 to 50 psig) with 1" MNPT Kynar Twist Lock
Body Type	RYTON (Poly-Phenylene-Sulfone) with Twist Lock Front End – 1" MNPT Back End
Junction Material	KYNAR (Poly-Vinylidene-Fluoride)
Dimensions	211mm Length, Maximum Diameter 33.3mm
Cable Length	6m
Temperature Compensation	Pt1000 with Accu-Temp
Preamplifier	Not Fitted – Digital Sensor
Waterproofing	Immersible, Submersible if threaded on sealed immersion rod with sufficient sealing tape
Connection	Snap Connector NEMA 6P
Special Features	Acid/Fluoride, Slurry, Sulphide, and Organic Resistant
pH Sensor Specifications	
Measuring Glass Type	Hemispherical, Green Glass (MUGG)
Glass Dimensions	8.0mm (0.315") Diameter
Initial Impedance	< 800 M Ohms @ 25°C
Sodium Ion Error	< 0.15 pH in Na ⁺ solutions at pH 14.00
Acidic Errors	< 0.05 pH in HCl solutions at 0.00 pH
Reference System Specifications	
Type	Triple Junction
Reference Half Cell	Ag/AgCl, Saturated KCl
Primary & Secondary Junction	Porous Ceramic, Saturated KCl in Cross-linked polymer, interfaced to Tertiary Junction
Tertiary Junction	Solid-State Non-Porous Cross-Linked Polymer embedded in high capacity Kynar Support Matrix. Holds excess KCl assuring saturation at all temperatures for stability & long sensor service life in application where little or no maintenance will be performed.
Application Specifications	
Recommended Applications	Specifically designed for the Gold industry. Industrial, chemical, food & beverage, semiconductor, pharmaceutical & wastewater. Any measurement where aggressive chemical cleaning is needed to remove fouling or low-maintenance operation is required with minimal cleaning and re-calibration.
Analyser / Interface	Turtle Tough TT-MAD Digital Analyser
Storage	Item should be kept at room temperature with closed protector cap, filled with storage solution in an upright position. Shelf life warranted for 12 months from the date of purchase.
Warranty	12 Month Conditional Warranty Please see www.turtletoough.com.au/support/warranty-returns

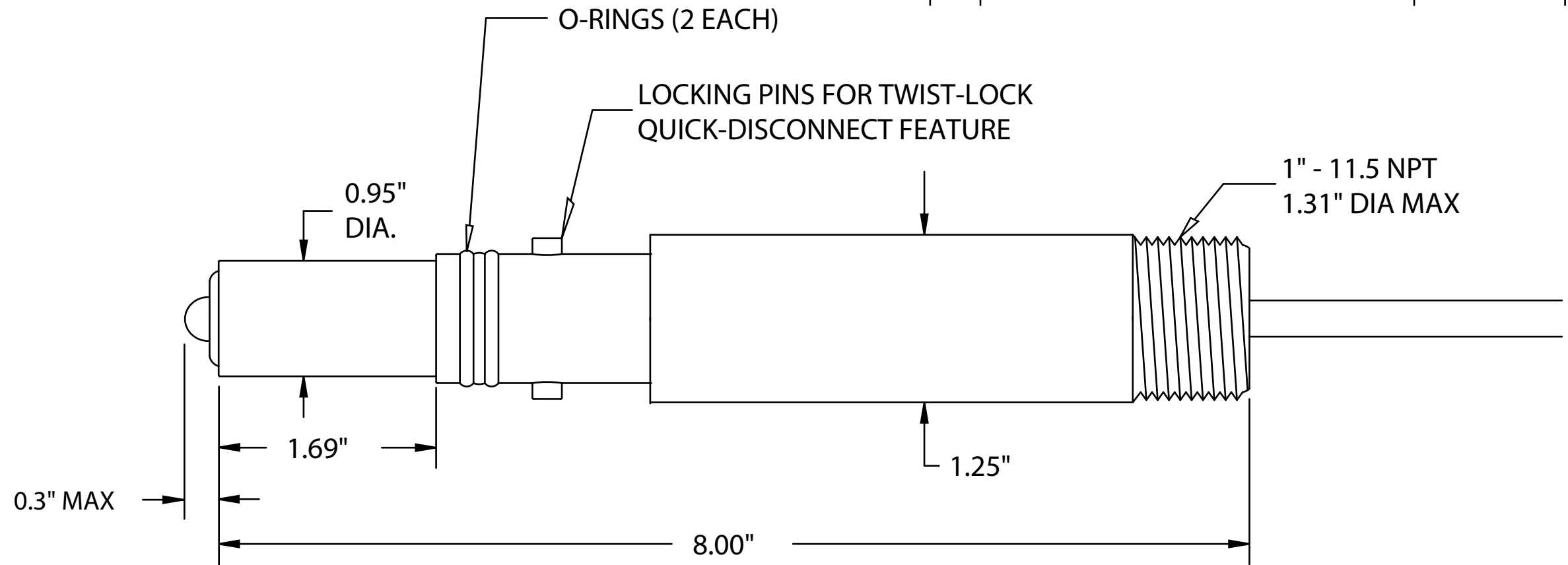
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REVISION HISTORY			
REV	DESCRIPTION	DATE	APPROVED

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NOTES

1. All dimensions are in inches, unless otherwise indicated with tolerances as detailed below.
2. Sensor body material of construction is RADEL, PEEK or RYTON.
3. O-ring material of construction is Viton-75 standard; CV75, Simriz 485 & Kalrez 4079 Optional
4. Drawing as shown is without protective tines. The maximum displacement of the sensor past the end of the body in this configuration is 0.3" inches yielding a max overall length of 8.3 inches.
5. With Protective tines (4 places, 90 degrees apart or 2 places, 180 degrees apart) configuration, overall sensor length is 8.00 inches.
6. This sensor is only suitable for inline installation when used with Turtle Tough 1" MNPT Twist Lock Receptacle.
7. Do not use any sensor beyond the factory defined maximum temperature or pressure rating.

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 TURTLE TOUGH Turtle Tough Sensors www.turtletoough.com.au			
TITLE Sensor for Inline Twist Lock Quick Disconnect Use			
SIZE B	PROJECT TWIST-LOCK	DRAWING NO. 8-1 pH SENSORS	REV /
SCALE Not to Scale	MODEL 8X31,8X41,8X51,8X52	SHEET 1	OF 1

TOLERANCES	
1 Place: ± .1	3 Places: ± .005
2 Places: ± .01	4 Places: ± .0005
Angular: ± 0.25°	

DRAWN BY RH
CHECKED BY TADP
APPROVED BY MJP

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