IOTRON™ SENSORS
INTEGRATED pH SENSOR SPECIFICATIONS

Part number:	6332
Configuration:	3/4" – 3/4" MNPT Integrated, Slurry Resistant pH Sensor
General Specifications:	
pH Range:	0 to 14 pH
Temperature Range:	-5 to 105 °C
Pressure Range:	1 to 100 psia (6.9 to 690 kPa absolute)
Body Material:	Ultem (Poly-Ether-Imide)
Junction Material:	Kynar (Poly-Vinylidene-Fluoride)
Dimensions:	Drawing <6-6>
Cable:	RG 174/U Coaxial (without preamplifier)
Connector:	BNC (unless otherwise specified)
pH Sensor Specifications:	
Measuring Glass Type:	Flat Green Glass (MUGG)
Dimensions:	0.310, (7.8 mm) DIA
Initial Impedance:	Less than 1,500 M Ohms @ 25 °C
Sodium Ion Error:	Less than 0.15 pH in 1.0 M Na^+ Concentration at pH 14.00
Acidic Error:	Less than 0.05 pH in 1.0 M HCl @ 0.00 pH
Reference System Specifications:	
Type:	Double Junction
Reference Half Cell:	Ag/AgCl, Saturated KCl
Primary Junction:	Porous Ceramic, Saturated KCl in crosslinked polymer
Secondary Junction:	Porous Kynar, Saturated with KCl in crosslinked polymer
Surface Area:	366,000 mil^2 (236 mm^2)
Special Features:	Crosslinked polymer is resistant to heat, solvents and to most chemicals. Sensor holds an excess of KCl, assuring saturation at all temperatures and extending in situ sensor life. The reference system holds a generous supply of aqueous saturated KCl, eliminating effects of intruding contaminants and permits the sensor to be left in dry condition for extended periods of time. Reference junction material and crosslinked polymer is abrasion resistant. The special configuration and low profile of the active sensor surface does not interfere with the process flow and insures long product life.
Recommended Applications:	Abrasive slurries, high viscosity stock in food, paper, paper pulp and mining industries.
Storage and Shelf Life:	At room temperature with closed protector cap, 1 year from date of manufacture.
Standard Hook-Up Options:	No Preamp - BNC Connector + TC lead wires
	With Preamp – Multiconductor Lead Wires – See Hook Up Schematics

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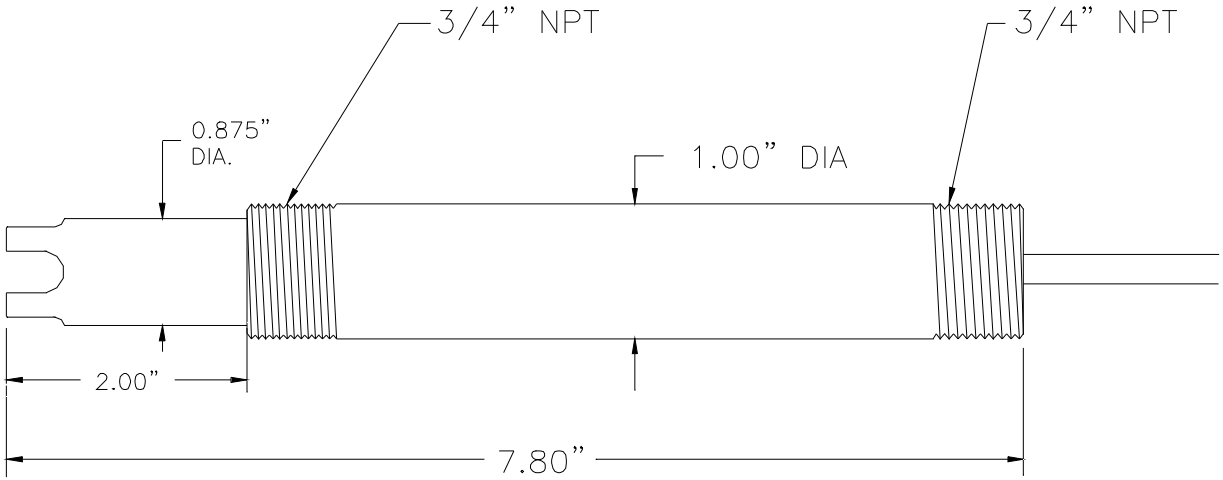
REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
2	1			



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INTEGRATED pH SENSOR
REF. DRAWING <6-6>

DIMENSION	SIZE 2	WEB NO. #<6-6>	DWG NO. ASTI6-6.DWG	REV 1
DRAWN BY: PETE CSISZAR	SCALE NONE	DATE: MARCH, 2003	SHEET 1 OF 1	