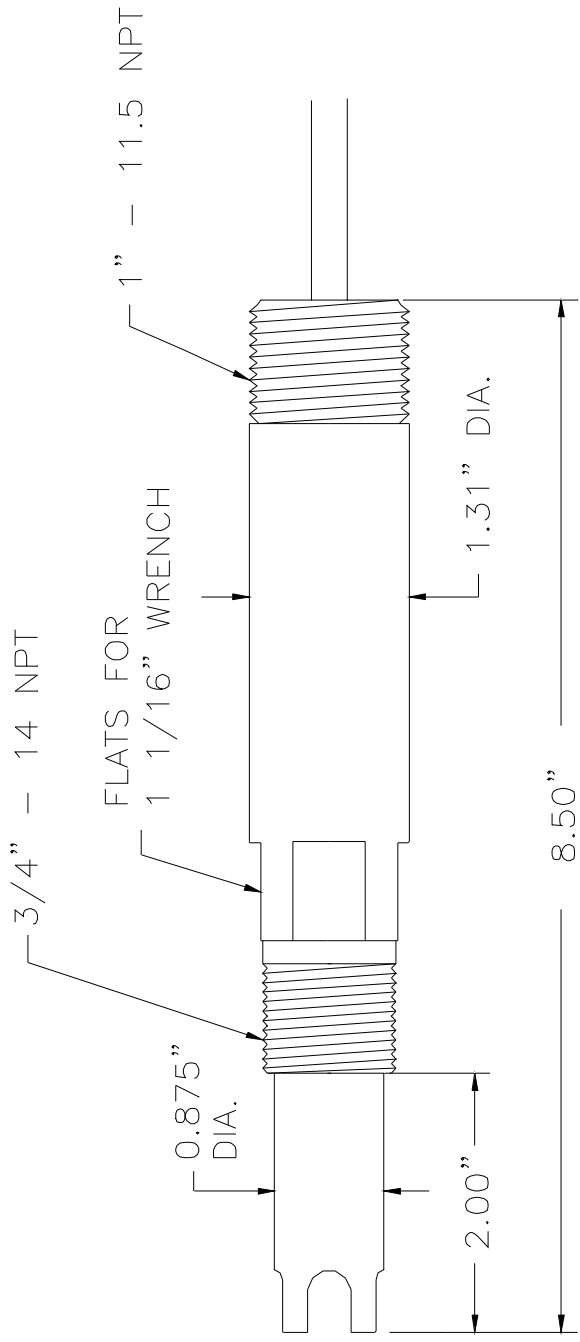


<u>Part number:</u>	AB 6820
<u>Configuration:</u>	3/4" – 1" MNPT Integrated Nitrite (NO ₂ ⁻) Ion Selective Sensor
<u>General Specifications:</u>	
<u>Concentration Range:</u>	1.0 to 10 ⁻⁵ Molar (46,000 to 0.460 ppm)
<u>Lowest Limit of Detection:</u>	0.276 ppm (276 ppb)
<u>pH Range:</u>	4 to 9 pH
<u>Temperature Range:</u>	5 to 40 ° C
<u>Pressure Range:</u>	1 to 10 psig (6.9 to 69 kPag)
<u>Body Material:</u>	Ultem (Poly-Ether-Imide)
<u>Junction Material:</u>	KYNAR (Poly-Vinylidene-Fluoride)
<u>Dimensions:</u>	Drawing <6-2>
<u>Cable:</u>	RG 174/U Coaxial (without preamplifier)
<u>Connector:</u>	BNC (unless otherwise specified)
<u>Ion Sensor Specifications:</u>	
<u>Measuring Membrane:</u>	Selective Nitrite Sensitive Membrane (Organic)
<u>Dimensions:</u>	0.310, (7.8 mm) DIA
<u>Initial Impedance:</u>	Less than 100 M Ohms @ 25 ° C
<u>Interfering Ions (Permissible ratios of Molar excess) :</u>	SCN ⁻ (5), ClO ₄ ⁻ (25), Br ⁻ (230), NO ₃ ⁻ (760), Cl ⁻ (6,400)
<u>Reference System Specifications:</u>	
<u>Type:</u>	Double Junction
<u>Reference Half Cell:</u>	Ag/AgCl, Saturated KCl
<u>Primary Junction:</u>	Porous Ceramic, Saturated KCl in crosslinked polymer
<u>Secondary Junction:</u>	Porous KYNAR, Saturated with KCl in crosslinked polymer
<u>Surface Area:</u>	366,000 mil ² , (236 mm ²)
<u>Special Features:</u>	<p>Crosslinked polymer in the reference system is resistant to heat, solvents and to most chemicals. Sensor holds an excess of KCl assuring saturation at all temperatures and extending the life of the sensor.</p> <p>The sensor is designed to resist the interactions of a wide range of chemicals and some solvents used in chemical processes.</p> <p>The construction of the sensor permits easy access to the sensing and reference surfaces for cleaning or inspection.</p>
<u>Recommended Applications:</u>	Nitrite ion concentration in aqueous solution from ultrapure water through waste water to industrial process solutions.
<u>Storage and Shelf Life:</u>	At room temperature with closed protector cap, 1 year from date of manufacture.
<u>Standard Hook-Up Options:</u>	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
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ASTI
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ION SELECTIVE SENSOR
REF. DRAWING <6-2>

SIZE	DWG NO.	REV
Z	#<6-2>	1
SCALE: NONE		SHEET 1 OF 1

DATE: MARCH, 2003

DIMENSION	
DRAWN BY:	PETE CSISZAR

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