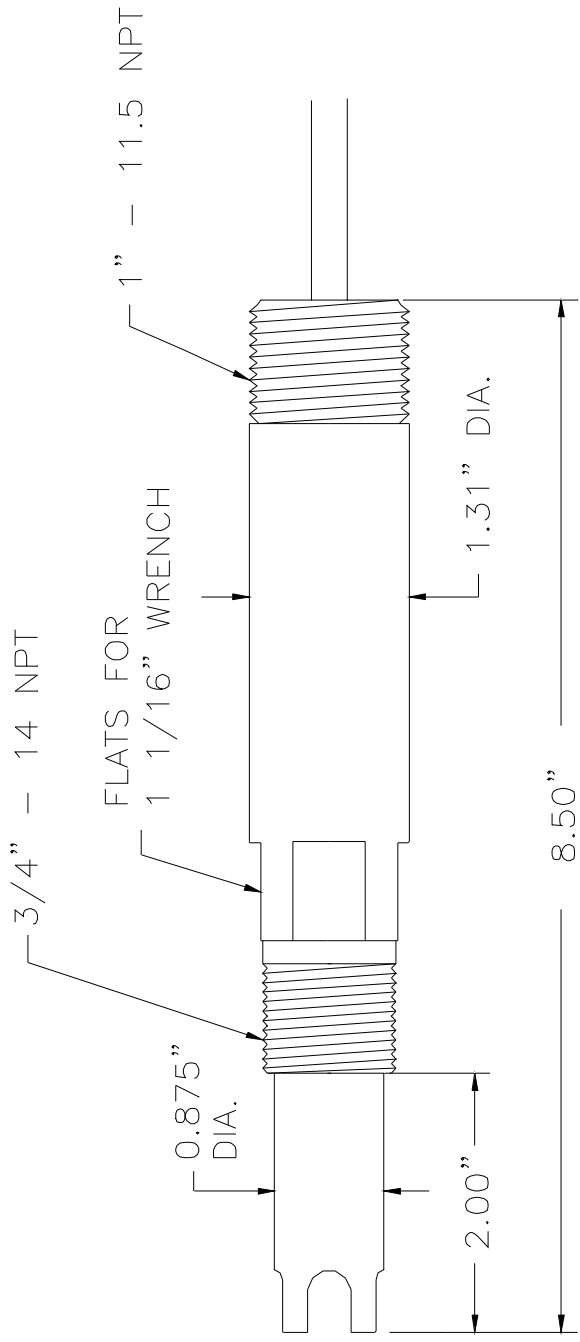


<u>Part number:</u>	AB 6610
<u>Configuration:</u>	3/4" – 1" MNPT Integrated Chloride Ion Selective Sensor
<u>General Specifications:</u>	
<u>Concentration Range:</u>	4.4 to 10 ⁻⁴ Molar, 156,00 to 3.545 ppm
<u>Lowest Limit of Detection:</u>	10 ⁻⁵ Molar, .355 ppm (355 ppb)
<u>pH Range:</u>	2 to 12 pH
<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 Chloride 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:</u>	
<u>Given in Ratios of Permissible Excess:</u>	HCO ₃ ⁻ (6.3X10 ⁴), HPO ₄ ⁻ (8X10 ⁶), SO ₄ ⁻ (2.5X10 ⁶),
<u>Interfering Ion / Measured Ion (in Molarity)</u>	F ⁻ (4X10 ⁶), NO ₃ ⁻ (4X10 ⁶), ClO ₄ ⁻ (3.2X10 ⁴),
<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 KNO ₃ 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 Na₂SO₄ 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

4 3 2 1

REVISIONS			
ZONE	REV	DESCRIPTION	DATE
2	1		



ASTI
Advanced Sensor Technologies, Inc.

ION SELECTIVE SENSOR
REF. DRAWING <6-2>

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

DATE: MARCH, 2003

ASTI	
Advanced Sensor Technologies, Inc.	
ION SELECTIVE SENSOR	
REF. DRAWING <6-2>	
SIZE	DWG NO.
Z	#<6-2>
SCALE NONE	
SHEET 1 OF 1	

4 3 2 1

D C B A