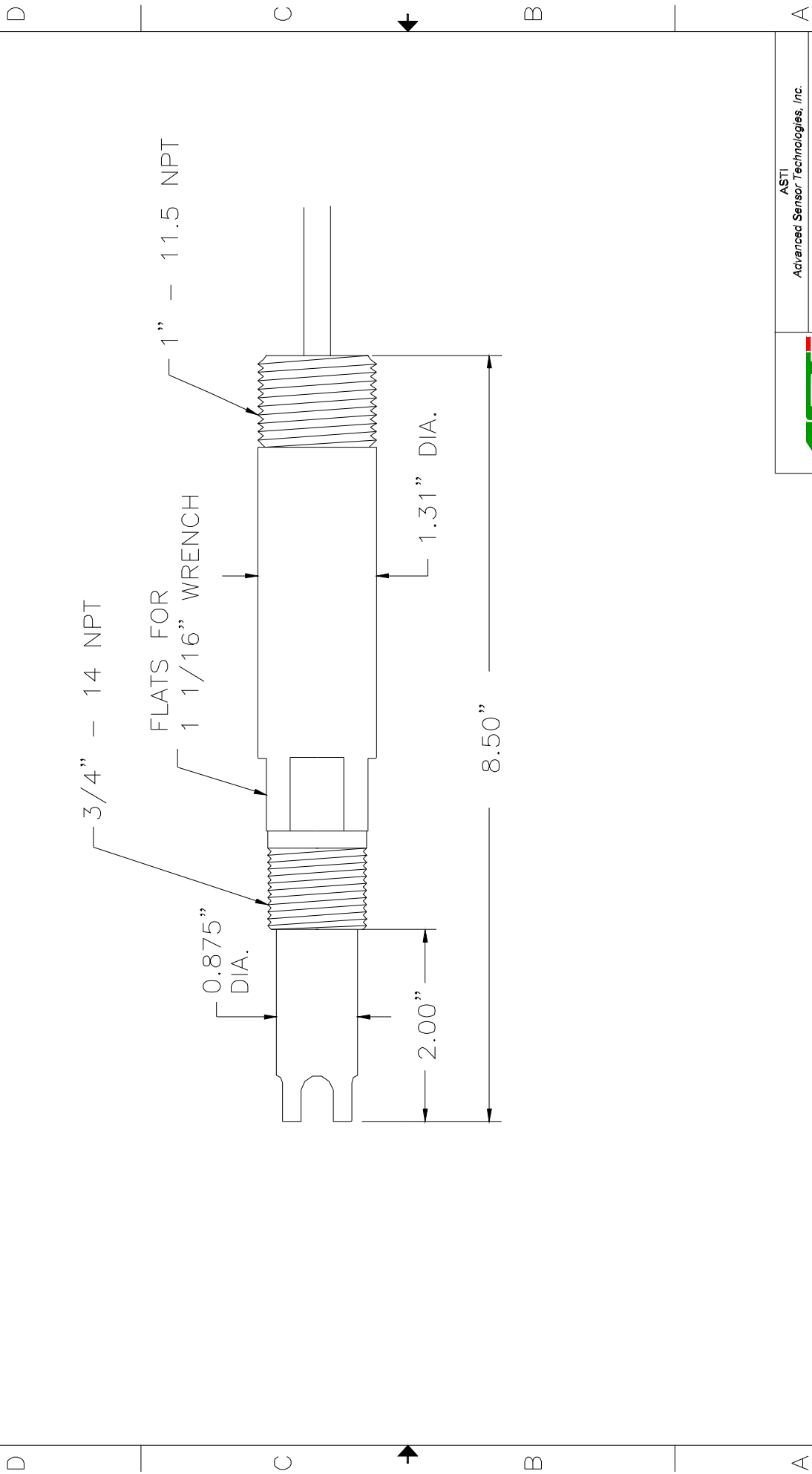


<u>Part number:</u>	AB 6170
<u>Configuration:</u>	3/4" – 1" MNPT Integrated Silver Ion Selective Sensor
<u>General Specifications:</u>	
<u>Concentration Range:</u>	1 to 10^{-7} Molar, 107,900 to 0.011 ppm
<u>Lowest Limit of Detection</u>	10^{-17} Molar, 1.1×10^{-12} ppm
<u>pH Range:</u>	1 to 13
<u>Temperature Range:</u>	5 to 50 °C
<u>Pressure Range:</u>	1 to 20 psig (6.9 to 138 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 Silver Sensitive Membrane (solid state)
<u>Dimensions:</u>	0.310, (7.8 mm) DIA
<u>Initial Impedance:</u>	Less than 1 M Ohms @ 25 °C
<u>Interfering Ions:</u>	
<u>Given in Ratios of Permissible Excess:</u>	Hg ²⁺ (Trace)
<u>Interfering Ion / Measured Ion (in Molarity)</u>	
<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 KNO₃, assuring saturation at all temperatures and extending the life of the sensor.</p> <p>The ion sensitive part of the sensor is designed to resist the attack of silver metal ions, acids, alkali and most 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>	Silver ion concentration in aqueous solution from wastewater or 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: #<6-2>
 DIMENSION: ASTIAB6-2.DWG
 DRAWN BY: PETE CSISZAR
 SCALE: NONE
 DATE: MARCH, 2003
 SHEET 1 OF 1

4 3 2 1