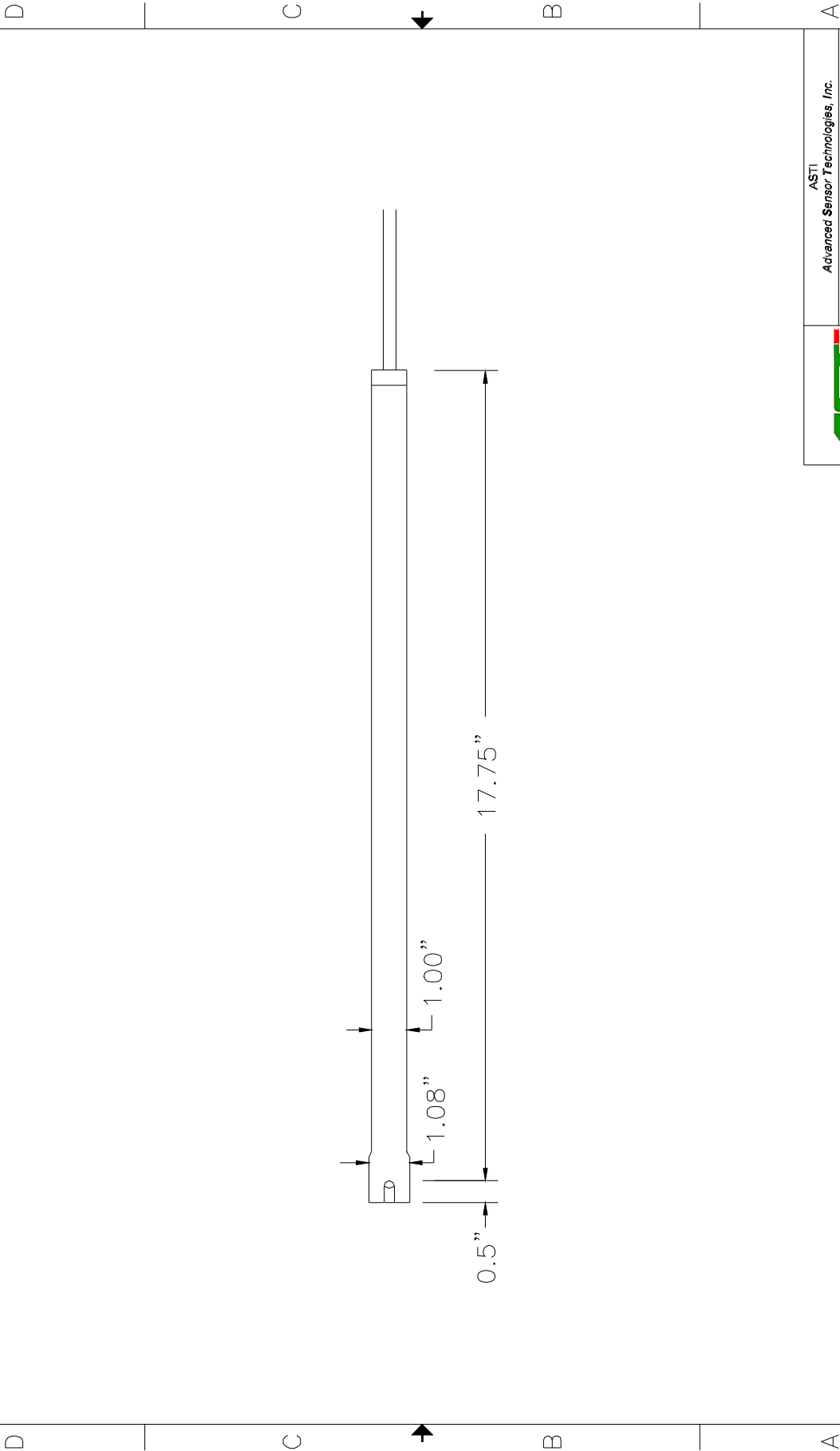


<u>Part Number:</u>	9931
<u>Configuration:</u>	1.0" O.D. Valve Retractable, Saturated Sodium Resistant pH Sensor
<u>General Specifications:</u>	
<u>pH Range:</u>	0 to 11 pH (0 to 14 pH, In the absence of Sodium Ions.)
<u>Temperature Range:</u>	-5 to 105 ° C
<u>Pressure Range:</u>	1 to 100 psia (6.9 to 690 kPa absolute)
<u>Body Material:</u>	Ultem (Poly-Ether-Imide)
<u>Junction Material:</u>	Kynar (Poly-Vinylidene-Fluoride)
<u>Dimensions:</u>	Drawing <9-1>
<u>Cable:</u>	RG 174/U Coaxial (without preamplifier)
<u>Connector:</u>	BNC (unless otherwise specified)
<u>pH Sensor Specifications:</u>	
<u>Measuring Glass Type:</u>	Hemispherical, Clear Glass (CH III), Sodium Resistant
<u>Dimensions:</u>	0.310, (7.8 mm) DIA
<u>Initial Impedance:</u>	Less than 200 M Ohms @ 25 ° C
<u>Alkaline Ion Error:</u>	Less than 0.15 pH in 1.0 M K <sup>+</sup> at pH 14.0
<u>Acidic Error:</u>	Less than 0.05 pH in 1.0 M HCl @ 0.0 pH
<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 <sup>2</sup> (236 mm <sup>2</sup> )
<u>Special Features:</u>	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 (CH III), Sodium Resistant pH Glass is though the major contributor to the performance of this very special sensor. Due to the pH glass composition the exposure of the sensor to saturated sodium solutions, even at elevated temperature and/or for a prolonged time, does not deteriorate either the pH response or the stability of the electrode calibration.
<u>Recommended Applications:</u>	Sodium brines, food, feed water, seawater, biological solutions, saline solutions, dialysis, sodium containing waste water, etching solutions, pollution control devices, where long service life or operation at remote locations where (no) low maintenance is required.
<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	APPROVED
2	1			



**ASTI**  
 Advanced Sensor Technologies, Inc.  
 VALVE RETRACTABLE  
 pH SENSOR DWG <9-1>

SIZE	FSON NO.	DWG NO.	REV
2	#<9-1>	AST19-1.DWG	1
DRAWN BY: PETE CSISZAR			SCALE NONE
DATE: MARCH, 2003			SHEET 1 OF 1

4 3 2 1