

CHT-SU 4PM Series  
Patient Monitoring Kits  
AAMI BP22-1994 Compliant



### DESCRIPTION

Advanced Sensors pressure monitoring kit with disposable pressure transducer is for use on patients requiring intravascular, intracranial, or intrauterine pressure monitoring. The medical pressure transducer is designed to provide clinicians the confidence and safety needed in patient monitoring. The product is extremely flexible for medical OEMs where housing luer fittings, flush devices, and stopcocks components can be varied dependent on the application. These medical sets are designed to simplify setup and give full visibility of the entire flow path. The foundational sensor is anchored by AVSensors CHT-SU 1620 medical MEMS element that is fully tested and individually calibrated. The CHT-SU-4PM Series provide patient and clinicians the highest value in safety and performance.

### APPLICATIONS

- Continuous arterial blood pressure monitoring
- Cardiac catheterization
- Central venous pressure monitoring
- Intrauterine Pressure Monitoring

### FEATURES

- Full visibility of Flow Path
- Easy and Safe Priming
- Safe Priming and Debubbling
- Wide Variation of Options
- AAMI Compliant
- Single Hand operation of flush device
- Compact Size
- Single Range

### SPECIFICATIONS

	Symbol	Min	Typical	Max	Unit	Note
<b>Performance Characteristic</b>						
Supply Voltage		1	6.0	10	V	
Input Resistance		1200		3200	$\Omega$	
Output Resistance		285		315	$\Omega$	
Operating Pressure Range		-50		300	mmHg	
Zero Pressure Offset		-20	8	+20	mmHg	
Pressure Accuracy (-50 to 100mmHg)		-1.0		+1.0	mmHg	2
Pressure Accuracy (100 to 200mmHg)		-1.0		+1.0	%Reading	2
Pressure Accuracy (200 to 300mmHg)		-1.5		+1.5	%Reading	2
Sensitivity		4.95	5.00	5.05	$\mu\text{V}/\text{V}/\text{mmHg}$	
Operating Temperature Range		10		40	$^{\circ}\text{C}$	
Thermal Shift, Offset		-0.3		0.3	mmHg/ $^{\circ}\text{C}$	3
Thermal Shift, Span		-0.1		0.1	%/ $^{\circ}\text{C}$	3
Output Symmetry		0.95		1.05	Ratio	4
Frequency Response		1200			Hz	
Offset Drift				1	mmHg	
Phase Shift (@5KHz)				5	Degrees	
Light Sensitivity @3K Foot Candles			1		mmHg	
Defibrillator Isolation		5			Discharges	5
Shelf Life				5	Years	

Weight				0.5	grms	
<b>Flow Properties</b>						
Low Flow Test, 3ml /hr				1.9-5.0 ml/Hr @ 276mmHg		
Low Flow Test, 30mil/hr				20-40 ml/Hr @ 276mmHg		
High Flow Test				Minimum of 125ml/min@276mmHg		
Wetted Materials				Ceramic, LCP, Epoxy, RTV, Silicon, Gold, Aluminum, Palladium Silver		

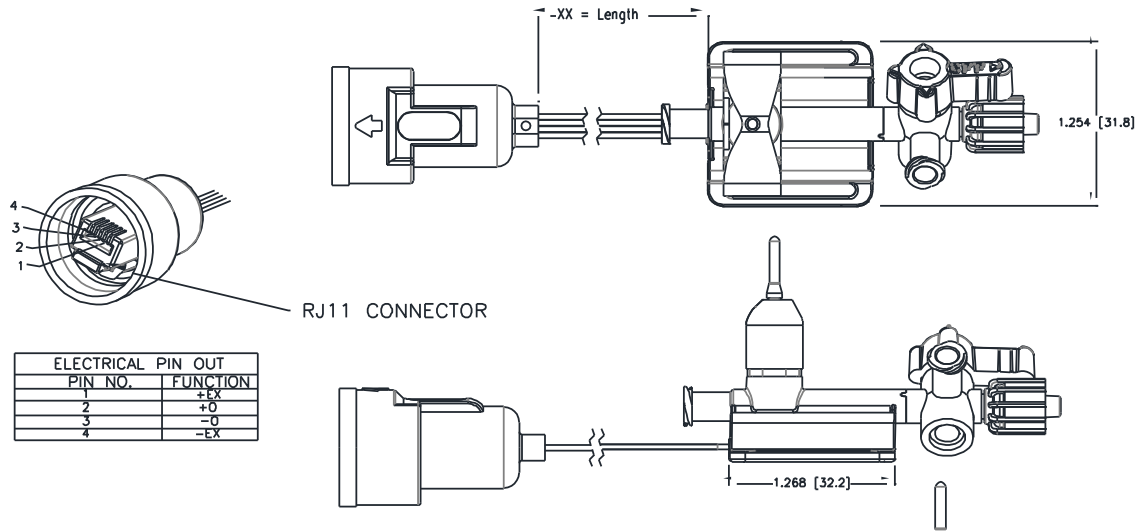
SPECIFICATIONS	Symbol	Min	Typical	Max	Unit	Note
<b>Absolute Maximum Conditions</b>						7
Overpressure		125			psi	
Storage Temperature		-25		70	°C	
Operating Product Life		168			Hrs	
Dielectric Breakdown		10			K Volts	
Risk Current (120VAC rms, 60Hz)				2	uA	
ETO Sterilization		3x			Cycles	6

**Reference Conditions:** Vsupply: 6.00Vdc, Ta=23 °C.

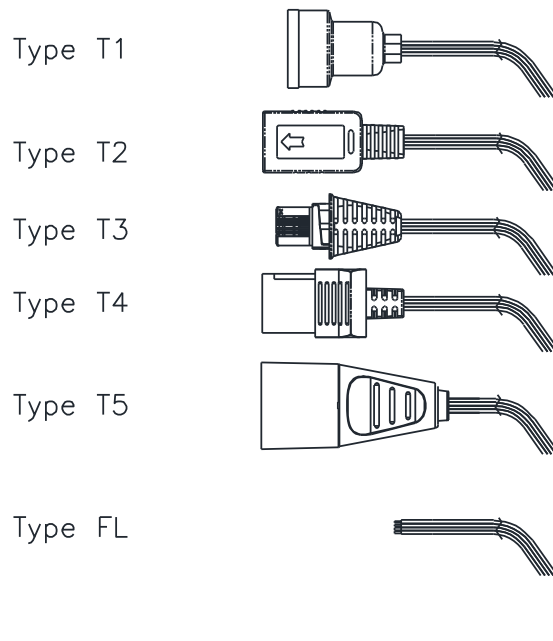
1. All specification at reference conditions unless otherwise noted. Output is ratio metric to supply voltage.
2. Best Fit Straight Line Non Linearity (Measured at 0, 50% and 100% FS).
3. Over operating temperature range with respect to reference temperature.
4. Defined as common mode symmetric between any output and supply terminal.
5. One discharger per minute.
6. Product compatible with ETO, Gamma and E Beam Sterilization.
7. Exceeding Absolute Maximum Specification may damage the device. Extended exposure beyond the operating conditions may affect device reliability.

### MECHANICAL DIMENSIONS in [mm]

#### Housing with Stop Cock or Flush Device



#### Connector Types



### PART NUMBERING FOR ORDERS

Series	Pressure Range	Pressure Units	Connector Style	Length (in)	Flush Device (ml/Hr)	Stop Cock Handle (#Handles)	Housing Style	Options
CHT-SU 4PM	300	Hg=mm Hg	T1= RJ11  FL=Flying Leads	XX = Length	NFD = No Flush Device  003 = 3 ml /Hr 030 = 30 ml/Hr	NSC = No Stop Cock  3H = 3 Handle 4H = 4 Handle	NGC = Narrow Gel Cup  WGC = Wide Gel Cup	-NS (No Shroud)

**Part Number Example: CHT-SU -4PM 300Hg T1 24 NFD 4H NGC**

**CHT-SU-4PM Series, 0 to 300mmHg Range with RJ11 connector, 24 inch cable, No Flush Device with 4 Handle Stopcock**

### WARRANTY

Pressure sensors have a limited one-year warranty to the original purchaser. AVSensors will repair or replace, at its option, without charge those items it finds defective. This is the buyer's sole remedy and is in lieu of all other warranties, expressed or implied, including those of merchantability and fitness for a particular purpose. In no event shall AVSensors be liable for consequential, special, or indirect damages. This warranty does not apply to units that have been modified, misused, neglected or installed where the application exceeds published ratings. Specifications may change without notice. The information supplied is believed to be accurate and reliable as of this printing, however, we assume no responsibility for its use.