

**CHT-SU 1560MV Series**  
**Single Use Medical Sensor**  
**MV Output**



**DESCRIPTION**

Advanced Sensors single-use medical sensor provides an accurate millivolt (mV) output, making it ideal for integration into various medical monitoring and diagnostic devices. The medical pressure transducer is designed to provide clinicians the confidence and safety needed in patient monitoring or in life science applications. The product features male and female luer fittings with RJ11 termination and boot or with flying leads. These medical sets are designed to simplify setup with a fixed sensitivity of 5uV/V/mmHg and give full visibility of the entire flow path. The foundational sensor is anchored by AVSensors SU 16200 medical MEMS element that is fully tested and individually calibrated. The CHT-SU 5660MV Series provides 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
- Single Use Medical Applications

**FEATURES**

- Full visibility of Flow Path
- Male & Female ISO594/1 Tapered Luer
- Wide Variation of Pressure Ranges
- ISO 10993 certified Polysulfone
- Fixed Sensitivity 5uV/V/mmHg
- RJ11 Termination with Boot

**SPECIFICATIONS**

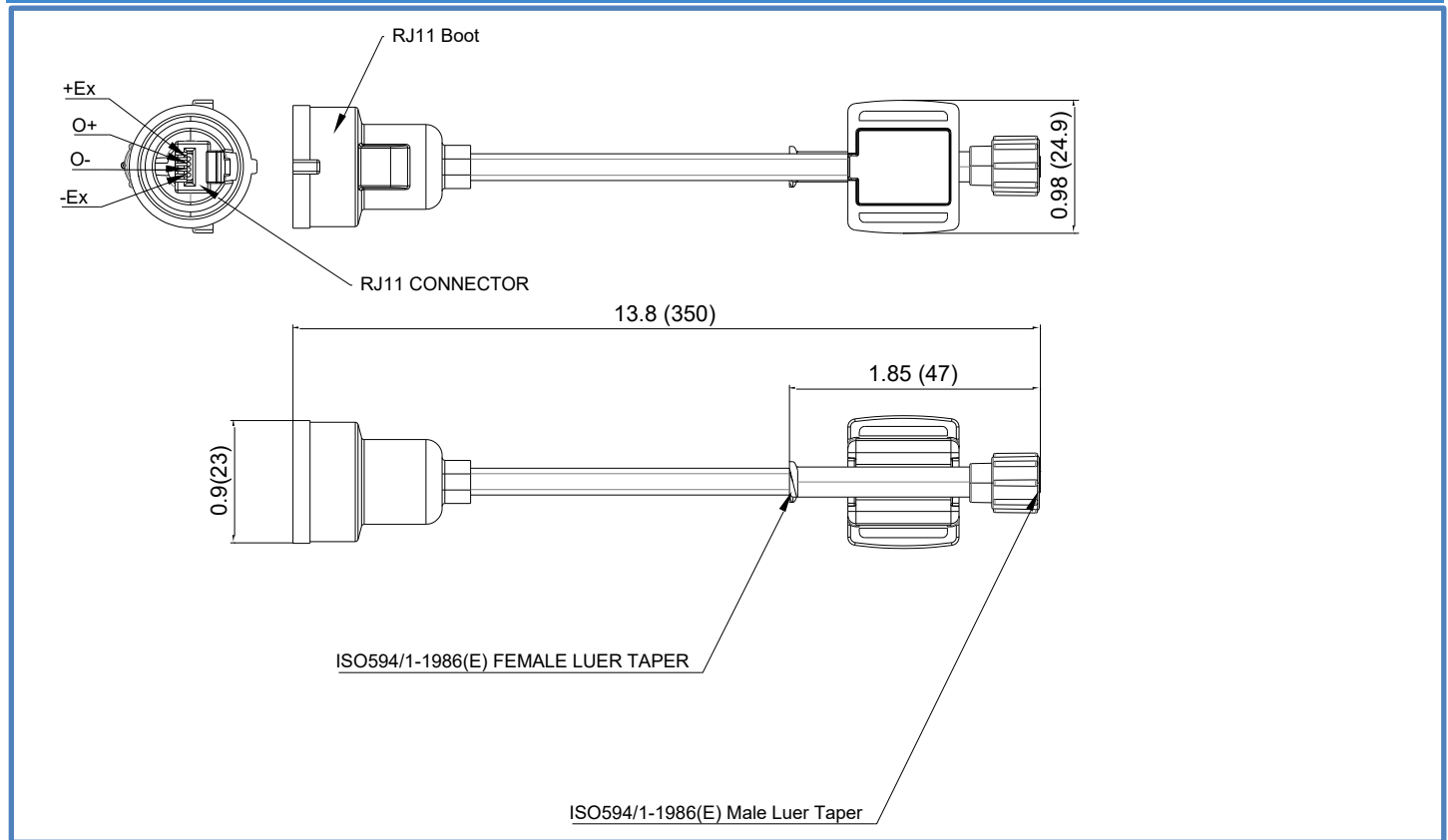
|                                    | Symbol | Min            | Typical | Max   | Unit       | Note |
|------------------------------------|--------|----------------|---------|-------|------------|------|
| <b>Performance Characteristic</b>  |        |                |         |       |            |      |
| Supply Voltage                     |        | 1              | 5.0     | 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       | 1    |
| Full Scale Span@ 300mmHg           |        |                | 7.5     |       | mV         | 1    |
| Sensitivity                        |        | 4.90           | 5.00    | 5.00  | uV/V/mmHg  |      |
| Sensitivity (5.8 To 30 PSI)        |        | 4.90           |         | 5.00  | uV/V/mmHg  |      |
| Sensitivity (30 To 60 PSI)         |        | 4.80           |         | 5.00  | uV/V/mmHg  |      |
| Sensitivity (60 to 100 PSI)        |        | 4.50           |         | 5.00  | uV/V/mmHg  |      |
| Pressure Accuracy                  |        | -0.50          |         | +0.50 | %FSS       | 2    |
| Compensated Temperature Range      |        | 0              |         | 40    | °C         |      |
| Operating Temperature Range        |        | -10            |         | 40    | °C         |      |
| Thermal Shift, Offset & Span       |        | -0.3           |         | 0.3   | %/°C       | 3    |
| Long Term Stability                |        |                | ±0.5    |       | %FSS       | 4    |
| Light Sensitivity @3K Foot Candles |        |                | 15      |       | mmHg       |      |
| Defibrillator Isolation            |        | 5              |         |       | Discharges | 5    |
| Shelf Life                         |        |                |         | 3     | Years      |      |
| Weight                             |        |                |         | 10    | grms       |      |
| Media Interface                    |        | Dielectric Gel |         |       |            |      |

| 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               |        |                                  |         | 8   | K Volts |      |
| ETO Sterilization                  |        | 3x                               |         |     | Cycles  | 6    |
| Operating Product Life             |        | 3 Hrs Liquid Media Over 100 PSI  |         |     |         |      |
|                                    |        | 24 Hrs Liquid Media Over 30 PSI  |         |     |         |      |
|                                    |        | 96 Hrs Liquid Media Below 30 PSI |         |     |         |      |

**Reference Conditions:** Vsupply: 5.00Vdc, Ta=23 °C.

1. All specification at reference conditions unless otherwise noted. Output is ratio metric to supply voltage.
2. The maximum deviation from a Best Fit Straight Line fitted to the output measured over the pressure range at 25 °C
3. Over operating temperature range with respect to reference temperature.
4. Offset & Span Shifts within 1 year at Constant Voltage
5. One discharger per minute performed by customer.
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]



| PART NUMBERING FOR ORDERS |                                        |                                   |                   |                   |                    |
|---------------------------|----------------------------------------|-----------------------------------|-------------------|-------------------|--------------------|
| Series                    | Connector Style                        | Housing Style                     | Pressure Range    | Units             | -Cable Length (mm) |
| CHT-SU 5660MV             | SH1= Shrouded Boot with RJ11 Connector | MFL = Male & Female Luer Fittings | 300               | mmHg              |                    |
|                           | FLL=Flying Leads, No Connector         |                                   | 030<br>100<br>150 | PSI<br>PSI<br>PSI |                    |
|                           |                                        |                                   |                   |                   | - XXX              |

**Part Number Example: CHT-SU 5660MV SH1MFL 100PSI**

**CHT-SU5660MV Series with RJ11 Shrouded Termination, Male Female Luer Fittings, 0 to 100 PSI Range**

**Part Number Example: CHT-SU 5660MV FLLMFL 100PSI-125**

**CHT-SU5660MV Series with 125mm Flying Leads Termination, Male Female Luer Fittings, 0 to 100 PSI Range**

## 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.