

T - Series "Smart" Pressure Transmitter

FEATURES:

- New options and mounting configurations for high temperature applications, up to 204 C (400°F)
- Standard 4-20 mA Output with "HART" Protocol for Digital Communications
- Micro-based Design provides best performance of any sanitary transmitter
- Widest choice of sanitary clamp and flushmount "CPM" fittings
- Optional LCD Display now available for vertical or horizontal viewing
- 3-A compliant; Third party verified in accordance with standard 74-02

The Anderson "T" series pressure transmitter is a microprocessor-based sensor specifically designed for sanitary fluid process applications in the Pharmaceutical and Bio-technology industry. This product provides an extremely high level of performance combined with the flexibility of digital communication via the "HART" protocol. The "T" series can be specified in several configurations including high temperature models that are available in direct or remote mount variations. The high temperature direct mount is also recommended for applications where a horizontal orientation is reguired for display viewing, such as tank tops and overhead lines. All models comply with UL, "intrinsically



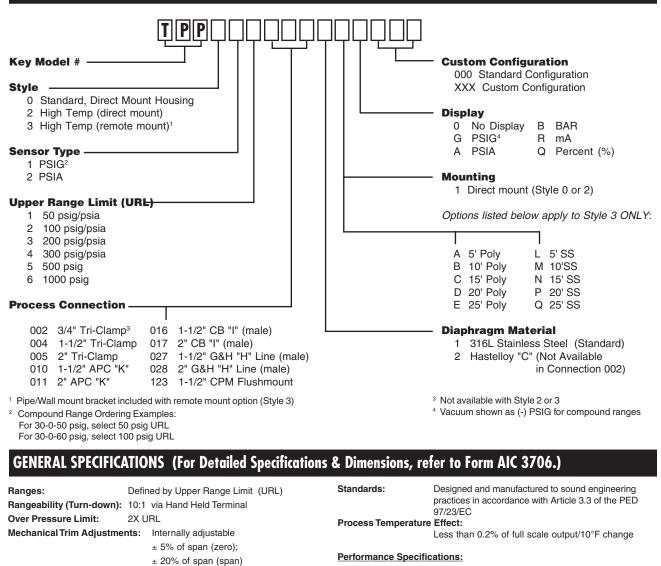
safe" requirements for Class 1, Div. 1, Groups A-D, and carry the "CE" mark. The units may be ordered with any of our wide variety of sanitary process fittings.

The "T" series simultaneously outputs an analog 4-20 mA signal while communicating digitally with a handheld communicator or other "HART" host device. This allows configuration of parameters such as range, engineering units, tagging info, and other device specific information, from any accessible point in the output loop. The analog output can even be "trimmed" or calibrated while online, if required. Also retained are internal, non-interactive zero and span analog adjustments. This provides the user with the immediate performance enhancements of this new product, with future compatibility with the "HART" protocol.

As with all Anderson sensors, the "T" series is designed to be cleaned and steam sterilized in place. The optional LCD display can be factory scaled to linear process engineering units, mA output, or 0-100%.



Complete Product Ordering Matrix



4-20mA, Two-wire, Linear, Digital Process variable Output: Accuracy* (psig ranges): ±0.2% of URL superimposed on 4-20mA signal, available to any (psia, compound vacuum): ±0.2% URL(above atmospheric zero); "HART" protocol conforming host. ±1.0% URL (below Power Supply: 13-40 volts, D.C. atmospheric zero) 18-45 volts D.C. with display * Accuracy includes repeatability, hysteresis and linearity. Indication: Optional, cap-mounted, LCD Indication Repeatability: ± 0.06% accuracy ±1% F.S. Hysteresis: ± 0.07% Temperature Limits (Process): Linearity (BFSL): +0.07%-18 to 135°C (0 to 275°F) (± 0.17% for psia, compund and vacuum ranges) Standard/Direct Mount: Stability: ± 0.3% OF URL/6 months High Temp./Direct Mount: -18 to 177°C (0 to 350°F)** High Temp./Remote Mount: -18 to 204°C (0 to 400°F)** **Physical Specifications:** Temperature Limit (Ambient): -18 to 49°C (0 to 120°F) Hazardous Locations Compliance: Wetted Material Surface Finish: Electropolished to Ramax = 8 microinches (.2 microns) UL Compliance with Class 1, Div. 1, Groups A thru D 316 "L" Stainless Steel Wetted Material: for intrinsically safe apparatus, when connected with approved Housing Material: 304 Stainless Steel barrier system (See instruction manual). Housing Ratings: NEMA 4X, IP-66 CE Compliance: **Electrical Connections:** 1/2-14NPT conduit with screw terminals and Transmitter complies with all CE requirements. integral test loops for HART interface Optional LCD display accuracy = ±2% when subjected to a Process vacuum in excess of 24" Hg may require slight de-rating of radiated transmission field of 150 to 180 MHz, and 230 to 350 maximum temperature (consult factory) MHz (field strength of 10V/m 80% AM 1KHz).

MEETS OR EXCEEDS CGMP'S OF THE PHARMACEUTICAL INDUSTRY

