

Digital Transmitters

AccuTru is pleased to offer the high quality Endress + Hauser line of temperature transmitters along with . During the past ten years the company evolved from being a manufacturer of sensors for the process automation industry to becoming an international provider of automation solutions mainly for the process industries, offering a multitude of instruments suited for industrial processes. We also carry a line of both digital and analog transmitters for those who are looking for economical utility transmitters

E+H Model Hart TMT 182



Universal head transmitter for resistance thermometers, thermocouples, resistance and voltage transmitters, settable via HART® protocol



Inputs:
Resistance thermometer (RTD)
Thermocouple (TC)
Resistance transmitter (Ohm)
Voltage transmitter

(mV) HART® -protocol for front end unit or panel unit operation using the hand operating Module (DXR275) or PC (e.g., ReadWin® 2000, COMMUNWIN II or FieldCare)

Universal settings with HART® -protocol for various input signals Operation, visualization and maintenance via PC, e. g. COMMUNWIN II or ReadWin 2000 operating software.

- 2 wire technology
- 4 to 20 mA analog output.
- High accuracy in total ambient temperature range.
- Fault signal on sensor break or short circuit, presettable to NAMUR NE 43
- Customer specific linearization
- linearization curve match

E+H Model PT TMT184

Temperature head transmitter with PROFIBUS-PA®-interface. Supply and digital communication using PROFIBUS-PA®

Applied in a PROFIBUS-PA® environment, the process industry field bus, an open standard to EN 50 170 and IEC 1158-2

Temperature head transmitter with PROFIBUS-PA® protocol for converting various input signals into a digital output signal.



Input:
Resistance thermometer (RTD)
Thermocouple (TC)
Resistance transmitter (Ohm)
Voltage transmitter (mV)

Swift and easy operation, visualization and maintenance using a PC direct from the control panel, e.g. using the COMMUNWIN II operating software, FieldCare, Simatic PDM or AMS

Universally programmable for various input signals using PROFIBUS-PA® DIP switch for address setting (as option)

- High accuracy in the total ambient temperature range
- EMC to NAMUR NE 21, CE
- Certification:
 - ATEX Ex ia (FISCO-Model) and dust zone 22 in compliance with EN 50281-1
 - FM IS
 - CSA IS
- PROFIBUS-PA® Profile V3.0
- Galvanic isolation
- Customer specific measurement range setting or expanded SET UP



ARRIVING SOON....

Third Quarter 2008

A new version of AccuTru's patented Self-Validating Temperature Sensor System (SEVA) is scheduled to be released sometime during the third quarter of 2008.

Under development for more than a year, the new version has been reduced to a very small footprint that allows the use of a small explosion proof container. This new design allows the use of the Self-Validating Sensor System in any environment.

The new transmitter is expected to have a list price that is significantly less than the current SVS transmitter. As with previous versions, the new transmitter is designed to allow the use of any of the three Self-Validating Sensor Systems, depending upon the temperature range of the process.

The SVS/411 system is designed for applications in the range of -235 degrees C to 600 degrees C.

The SVS/2311 sensors are for use in applications in the range of -235 degrees C to 2311 degrees C.

SVS/3212 is designed for high temperature applications such as glass melters, semiconductor chip manufacturing and other processes where temperatures are above 2300 degrees C.

Digital Transmitters

E+H Model PCP TMT181

Universal temperature head transmitter iTEMP PCP TMT 181

PC programmable (PCP) temperature head transmitter for converting various input signals into an scalable 4 to 20 mA analogue output signal



Input:

- Resistance thermometer (RTD)
- Thermocouple (TC)
- Resistance transmitter (Ohm)
- Voltage transmitter (mV)

Online configuration using PC with TMT 181A configuration kit and PC-software ReadWin 2000

- Universally PC programmable for various signals
- Galvanic isolation
- 2 wire technology, 4 to 20 mA analog output
- High accuracy in total ambient temperature range
- Fault signal on sensor break or short circuit, pre-settable to NAMUR NE 43
- EMC to NAMUR NE 21, CE
- UL recognized component to UL 3111-1
- Ex-Certification
 - ATEX Ex ia and dust zone 22 in compliance with EN 50281-1
 - FM IS
- - CSA IS
- Online configuration during measurement using SETUP connector
- Output simulation
- Customer specific measurement range settings or expanded SETUP



AST Model Mp82700

2-wire microprocessor head-mounting transmitter

The Mp82700 incorporates advanced microprocessor technology to provide very high accuracy. It is scalable over the entire range of 8 RTD's and 12 thermocouple types; as well as accepting millivolt and resistance inputs.

Able to fit in a small, standard connection head, it is easily programmed via a personal computer with our "Point 'N Click" software.

- Microprocessor-Based
- Universal Input
- Fully-Isolated
- Fully-Linearized
- RFI/EMI-Immunity
- ATEX approval
- High Accuracy (0.1%)
- Small Size
- 5-Year Warranty
- Optional Plug-In Readout & Head



AST Model Mp88700

2-wire microprocessor Rail mount transmitter

The Mp88700 is scalable over the entire range of 8 Red's and 12 thermocouple types; as well as accepting mill volt and resistance inputs.

Features include: small minimum spans, complete isolation; selectable upscale/downscale; a five (5) year warranty against failure; and optional intrinsic safety approval.



The Mp88700 is easily programmed via a personal computer with our "Point 'N Click" software.

AST Model Mp82700-H

2-wire HART protocol Head-mounting transmitter

Microprocessor-Based
Universal Input
Fully-Isolated
Fully-Linearized
High Accuracy (0.1%)
Small Size



Same as the Mp82700 the Mp82700-H is the Industry's most advanced 2-wire head-mounting μ P-based transmitter. Able to fit in a small, standard connection head, it is easily programmed via a personal computer with our "Point 'N Click" Software.

The Mp82700-H can also be set by HART-communicator or other HART related software.

The transmitter incorporates highly advanced microprocessor technology to provide the high accuracy. It is scalable over the entire range of 8 RTD's and 12 Thermocouple Types; as well as accepting Millivolt and Resistance inputs.



Analog Transmitters

AST Model ALM 42

Analog 2-wire Head-mount low budget transmitter

Especially for those who require a low budget transmitter with high accuracy we have developed the ALM series. This series is limited to four different models, yet covering the entire range of MilliVolts, Pt100 and Thermocouples K, J and T. You will find an easy to install transmitter and amazing accuracy on all models.



On this device you can easily select any of the ranges yourself, just by making a solder on top of the transmitter.

The ALM 42 is a High Quality Head mounting Transmitter; Free Scalable over the entire range of sensors starting at 0° C.

All transmitters can be fine adjusted with multi-turn potentiometers.

AST Model ALM 48

Analog 2-wire Rail-mount low budget transmitter

Designed for those who require a low budget transmitter with high accuracy we have developed the ALM series of transmitters. This series is limited to four different models, yet covering the entire range of MilliVolts, Pt100 and Thermocouples K, J and T. you will find easy to install transmitter and amazing accuracy on all models.



The ALM 48 gives you the possibility to select any range which doesn't necessarily have to begin at 0°C. This free scaleable Rail-mount Transmitter has an optional extra Zero Shift.

All transmitters can be fine adjusted with multi-turn potentiometers.

AST Model ALM 43-R

Analog Head-mount budget transmitter just for RTD's

Super Saver! A reliable low-cost transmitter to convert a Pt100 (RTD)- input signal to 4- 20 mA. Select the range you want by just making a solder link on top of the transmitter, and fine adjusted by a multi-turn potentiometer. The range should start at 0°C. The Span can be anywhere between 50°C and 800°C.

Overall accuracy .02% of the chosen range or .02 degrees C. The metal epoxy coated housing fits into a standard "B" size connection head.



Dr. Dan's Technical Tips:

"Wiring Considerations—Ensure good Practice."



- Ground loops, (isolators)
- Magnetic and Capacitive Coupling (twisted, shielded)
- Radio interference (filters, RFI shielding)
- Proper lead resistance



AccuTru Terms and Conditions of Sale

Dedicated to those organizations that value improved temperature measurement for critical processes