



Temperature & Process Instruments, Inc.



Temperature & Process Instruments, Inc.
 Visit our **NEW** Online Store at
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And Find the Temperature and Process Transmitter to meet your application needs

- You will also find sensors and instruments for all your Temperature and Process needs Including:
- ▶ Portable and Fixed Mount Infrared Thermometers
 - ▶ Handheld or Benchtop Multifunction Temperature and Process Calibrators
 - ▶ MIST Series Microprocessor based Integrated Sensor Transmitter
 - ▶ Single Function Handheld Thermocouple, RTD and Process Loop Calibrators
 - ▶ Portable and Fixed Mount Infrared Thermometers
 - ▶ Portable and Laboratory Dry Block Calibrators
 - ▶ **NEW Temperature and Process Panel Meters**



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 Web Site: <http://www.tnp-instruments.com>

Mp82700H HART® Protocol Microprocessor Based Temperature Transmitter

The **Mp82700H** is the industry's most advanced 2-wire head-mounting microprocessor based transmitter with HART® Protocol. Able to fit in a small, standard connection head, it is easily programmed in the field to your exact requirements via optional "Point 'N Click" PC based software and provides a simultaneous analog and digital HART® Protocol outputs over a single twisted pair of wires.



Price Start at \$295.00

The Mp82700H incorporates highly advanced mathematical functions to provide the highest accuracy in the industry, 0.1% of set span. It is scalable over the entire range of 8 RTDs and 12 Thermocouple Types; as well as accepting Millivolt and Resistance inputs. Features include: self-diagnostics; small minimum spans, complete isolation (500Vdc); selectable On/Off linearization; wide power supply capability (10 to 36 Vdc); selectable upscale/downscale; total RFI-immunity (DC to 1GHz.); and optional Intrinsically Safe Approval Ex: II 1 G EEx ia IIC T4.T6 or FM: IS/II/1/ABCD/T6 intrinsic safety approval.

Features

- ▶ Microprocessor-Based, HART® Protocol
- ▶ Universal Input - Thermocouples, RTD's, millivolts and Ohms
- ▶ Field Programmable with optional Programming Kit and PC Software
- ▶ Fully-Isolated and Linearized
- ▶ RFI/EMI-Immune
- ▶ High Accuracy 0.1%
- ▶ Small Size (1.7" dia. x 1.1"H)
- ▶ Optional FM or ATEX Approvals
- ▶ Optional Plug-In Display and Protection Head

Model	Description	Price
MP82700H	HART Protocol Programmable Transmitter	\$295.00

Each transmitter can be factory configured or programmed in the field with the optional PC based software and programming module.

For Additional Models and Specifications
 Visit our Web site at:
<http://www.tnp-instruments.com>

Mp82700 Microprocessor Based 2-wire Temperature Transmitter

MP82700 Series t

You no longer have to stock several different transmitters when a single, low-cost, high accuracy unit can meet all of your requirements.



Price Start at \$160.00

The Mp82700 can easily be programmed in the field with the optional field programming module and PC based "Point 'n Click" software program in less than one minute, the Mp82700 can be used for all your different sensor and range requirements.

The Mp82700 incorporates highly advanced mathematical functions to provide the highest accuracy in the industry - 0.1% of set span. It is scalable over the entire range of 8 RTDs and 12 Thermocouple Types; as well as accepting Millivolt and Resistance inputs.

Features

- ▶ **New MP82700 FM or ATEX Approvals Standard**
- ▶ Microprocessor-Based
- ▶ Universal Input - Thermocouples, RTD's millivolts and Ohms
- ▶ Field Programmable with optional Programming Kit and PC Software
- ▶ Fully-Isolated and Linearized
- ▶ RFI/EMI-Immunity
- ▶ High Accuracy (0.1%)
- ▶ Small Size (1.7" diaMEter. x 1.1"H)
- ▶ Optional Plug-In Display Readout and Protection Head

Model	Description	Price
MP82700	IS Programmable Transmitter	\$195.00
MP82700	Universal Programmable Transmitter	\$160.00

Each transmitter can be factory configured or programmed in the field with the optional PC based software and programming module.

For Additional Models and Specifications
 Visit our Web site at:
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Mp82800 Thermocouple and RTD Linearized Temperature Transmitter

Mp82800 2-wire Microprocessor Head Mount Temperature Transmitter

The **Mp82800** incorporates highly advanced 13th order polynomials to provide the highest accuracy in the industry 0.1% of set span. It is scalable from -200°C to the upper limit of Pt100 RTDs and Type J, Type K, Type T, and Type E Thermocouples. Features include: 25°C minimum span, complete linearization for all sensors; wide power supply capability (10 to 36 Vdc); selectable upscale/downscale; total RFI-immunity (DC to 1 GHz.); high loop drive capability (600 ohms @ 24 Vdc); and a five (5) year warranty against failure. It even has a 2 Line, 10-character alphanumeric tagging capability. An optional plug-in loop-powered LCD readout and small connection head with a glass window are also available.



Shown with Optional DANW Protection Head

Price Start at \$100.00

The Mp82800 is the smallest, most advanced 2-wire head mounting microprocessor based transmitter available. Able to fit in a small, standard connection head, it is easily and quickly programmed to your exact requirements via a personal computer or hand-held terminal.

Features

- ▶ **New MP82700 FM or ATEX Approvals Standard**
- ▶ **Microprocessor-Based**
- ▶ **Programmable for Thermocouple and RTD Input**
- ▶ **Fully-Linearized**
- ▶ **RFI/EMI-Protected**
- ▶ **High Accuracy**
- ▶ **Mounts in Standard Small Protection Head**
- ▶ **Optional Plug-In Display & Protection Head**

Model	Description	Price
MP82800	IS Temperature Transmitter	\$150.00
MP82800	Programmable Temperature Transmitter	\$100.00

Each transmitter can be factory configured or programmed in the field with the optional PC based software and programming module.

Mp82800R 2-wire Microprocessor Based Temperature Transmitter

Mp82800R 2-wire Microprocessor Based Head Mounted RTD Temperature Transmitter

The **Mp82800R** is one of the smallest, most advanced two-wire head mounting μ P-based transmitter available. Able to fit in a small, standard connection head, it is quickly and easily be factory programmed to your exact Pt100



Price Start at \$65.00

RTD requirements or via your personal computer with the optional "Point 'N Click" Software/Interface allowing you to have a single transmitter to meet all of your Pt100 requirements.

The Mp82800R is scalable from -200°C(-328°F) to the upper limit of Pt100 RTDs 850°C(1562°F). Features include: 25°C(40°F) minimum span, complete linearization; selectable 4-20mA or 20-4mA output; wide power supply capability (13 to 40 Vdc); selectable upscale/downscale; total RFI-immunity (DC to 1GHz.); high loop drive capability (600 ohms @ 24Vdc); and a five (5) year warranty against failure. It even has dual 10 character alphanumeric tagging capability. It is also available with optional ATEX Approval for Intrinsic Safety.

Features

- ▶ **Pt100 RTD 3 wire Input only**
- ▶ **High Overall Accuracy**
- ▶ **Fully-Programmable with optional Field Programming Kit**
- ▶ **Fully-Linearized**
- ▶ **RFI Protected**
- ▶ **Optional ATEX approval**
- ▶ **Optional Plug-In Loop-Powered Readout and Connection Head with Window**

Model	Description	Price
MP82800R	Programmable 2-wire RTD Transmitter	\$65.00

Each transmitter can be factory configured or programmed in the field with the optional PC based software and programming module.

For Additional Models and Specifications
Visit our Web site at:
<http://www.tnp-instruments.com>

Mp82000 Series 2-wire Transmitter Accessories

IF700 MP82000 Series Configuration Kit

The interface and PC Based "Point 'n Click" software program is suitable for all microprocessor based (Mp82000) transmitters.



Explosion-Proof Loop-Powered Process Indicator for All Mp82000 Transmitters

Featuring a large (1/2"), high-contrast loop powered LCD readout and displays the actual measurement parameters in degrees (°F or °C), Millivolts, or Ohms.



Head Mounted Display for MP82000 Transmitters

The "D" Display is a loop powered plug-in LCD readout for local display of the measured temperature. Easy to connect on top of the transmitter with the interface connector.



Model	Description	Price
IF700	Mp82000 Programming Kit	\$80.00
BI	Explosion Proof Housing and Display	\$290.00
D	Mp82000 Head Mount Display	\$80.00
DANW	Protection Head with Window	\$40.00

For your convenience
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