

Temperature Transmitters & Terminal Blocks

NEW! Temperature Transmitters

These Transmitters have been discontinued. Please see catalog supplement for current product information.

Universal Temperature Head Transmitters for RTD and Thermocouples, and for mounting in a connection head DIN Form B.

- Adjustable via PC, configuration kit shown below.
- High accuracy and wide ambient temperature range
- Fault signal on sensor break or short circuit
- NAMUR NE 43 compliant



Model	12415-03	12415-07	12415-05	12415-06
Temperature Transmitter	PC-programmable		Protocol - HART	
Approval	Non-hazardous area	FM*	Non-hazardous area	FM*
Application	RTD, TC, Ohm, mV			
Wire	2-wire, 4-20mA, Galvanic Isolation			
Fault Reaction	NAMUR NE 43			
Mounting	Head Form B, DIN43729			
Configuration Sensor Type	Pt100, -200 to 850°C, min span 10K, IEC751 (a=0.00385)		Factory setup Pt100, 3-wire 0 to 100°C	
Configuration	Factory setup Pt100, 3-wire 0 to 100°C			
Options	Standard = DIN mounting set		US-M4 mounting screws	

To specify setup parameters when ordering a transmitter please contact Customer Service.

* FM Approval for Intrinsically Safe Class 1, Division 1 & 2, Groups A, B, C and D.

12415-04 Configuration Kit for Universal Temperature Head Transmitters

- Used with PC Programmable devices
- Set-up program + interface cable for PC with USB port
- AA Adapter 4 pin plug + ReadWin 2000
- Factory configuration offered



Precision instruments from Wahl offer you the quality and reliability you rely on for your process!

For options not shown contact your Wahl Distributor

NEW! Terminal Blocks

Ceramic Terminal Heads

for RTD and Thermocouples Connection Heads. Brass and nickel plated brass terminals can be used with any of our connection heads.



12405-05
2 Position Ceramic Terminal Block



12405-01
4 Position Ceramic Terminal Block



12405-02
6 Position Ceramic Terminal Block

Calibration Services Available



Continued Innovation Since 1836
ISO 9001:2008 CERTIFIED

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Digital version of catalog may differ from printed version.

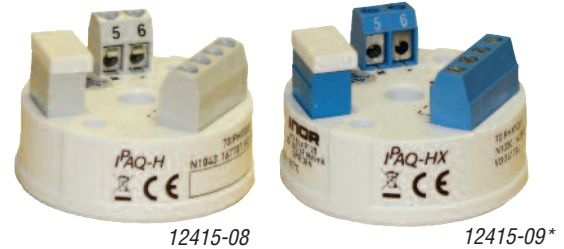
PW1260
04/11 Rev B

NEW! In-Head Temperature Transmitters

Universal Programmable 2-wire Transmitters

12415-08 • 12415-09 Universal Transmitters are universal, isolated 2-wire in-head transmitters for temperature and other measurement applications. They combine functionality and simple configuration. Useful error correction functions improve the accuracy.

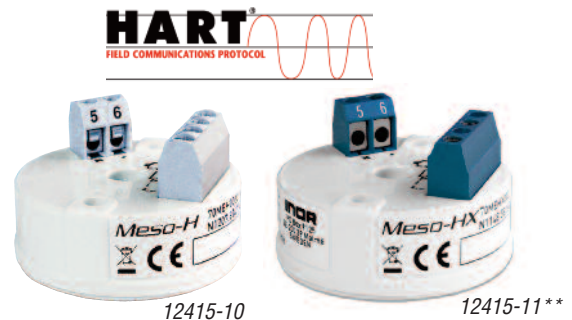
- Fully universal, linearized and high-isolation
- Accepts RTD, T/C, mV and Ω
- Sensor error and system (sensor/transmitter) error correction for highest total accuracy
- Full access to all features while in operation
- NAMUR compliant - for output limits and fail currents
- Consistent sensor break function
- Simplified loop check-up with calibration output
- Low sensor isolation detection
- IPRO or ConSoft Software, easy-to-use Windows configuration software - included with Configuration Kit, or free download from website. Call for details.



Universal HART-Compatible 2-wire Transmitters

12415-10 • 12415-11 Universal Transmitters are universal 2-wire in-head transmitters and are fully HART-compatible, with communication via the HART protocol.

- Utilizes HART Protocol for remote configuration and monitoring
- Communicates with HART Communicator or PC via modem
- Fully universal, linearized and isolated
- Accepts RTD, T/C, mV and Ω input
- Sensor error correction
- Easy wiring, large center hole
- 50 point linearization – any sensor can be matched
- Consistent sensor break function
- Full access to all features while in operation
- Low sensor isolation detection
- MEPRO, easy-to-use Windows configuration software - requires Hart modem or configurator



Basic Programmable 2-wire Transmitter

12415-12 Basic Transmitter is a basic, programmable non-isolated, easy-to-use 2-wire in-head transmitter. The Low Profile housing has a height of only 18.5 mm / 0.72 inch. Configuration is made in seconds with the user friendly Windows software. No external power supply required for configuration. The transmitter is programmable for RTD's in 3- and 4-wire connection according to different standards as well as for 11 T/C types. Useful error correction functions improve the accuracy. *Note: Only use with ungrounded probes*

- Robust terminals with test connections
- Only 18.5 mm / 0.72 inch high
- Accepts RTD in 3- and 4-wire connection and 11 T/C types
- Sensor error and system (sensor/transmitter) error correction for highest total accuracy
- Temperature linear output
- Configuration without external power
- Easy-to-use Windows configuration software
- NAMUR compliant - for output limits and fail currents
- Rugged design tested for 10 g vibrations
- USB communication
- MiniPac or ConSoft Software, easy-to-use Windows configuration software - included with Configuration Kit or free download from website. Call for details.



* FM Approval for Intrinsicly Safe Class I; Division 1; Groups A, B, C and D.

** FM Approval for Intrinsicly Safe Class I,II,III; Division 1; Groups A, B, C and D.

To specify setup parameters when ordering a transmitter please contact Customer Service.

Calibration Services Available

NEW! In-Head Temperature Transmitters

Programming Kit for Temperature Transmitters (excluding 12415-10 & 12415-11)

12415-13 Programming Kit is a complete kit for PC configuration of the transmitters above. The kit contains the INOR USB Interface, transmitter cables and ConSoft Software. User Instructions and Installation Guide included (on USB memory stick). Communication with the connected transmitter is established automatically, without any problems to match the PC communication port to the software.

- USB communication
- Automatic matching of communication ports
- Automatic transmitter identification for quick start up
- Diagnostic LED's on the USB Interface show the communication status
- Simple installation of configuration software and drivers for the USB Interface
- Free download from website. Call for details.

Precision instruments from Wahl offer you the quality and reliability you rely on for your process!



To specify setup parameters when ordering a transmitter please contact Customer Service.

Specifications					
Model	12415-08	12415-09	12415-10	12415-11	12415-12
Temperature Transmitter	PC-Programmable		Protocol - HART		PC-Programmable
Approval	Non-hazardous area	FM, Class I; Div 1; Intrinsically Safe Group A, B, C, and D	Non-hazardous area	FM, Class I,II,III; Div 1; Intrinsically Safe Group A, B, C, D, and G	Non-hazardous area Non-grounded probes
Wire	2-wire, 1500V AC, 1 minute, Galvanic Isolation		2-wire, 1500V AC, 1 minute Galvanic Isolation		2-wire, Non-Isolated
Fault Reaction	NAMUR NE 43		User programmable		NAMUR NE 43
Mounting	Head Form B, DIN43729		Head Form B, DIN43729		Head Form B, DIN43729
Typical Accuracy	±0.1% of span		±0.1% of span		±0.15% of span
Options	Standard = DIN mounting set		Standard = DIN mounting set		Standard = DIN mounting set
Configuration Sensor Type	8 RTD's: Pt100, Pt1000, Ptx 10, Ni100, Ni1000, Ni120, Cu10 and D100 Resistance Input: 0 to 2000 Ω 11 Thermocouples: B, C, E, J, K, L, N, R, S, T, U Voltage Input: -10 to +500 MV		6 RTD's: Pt100, Pt1000, Ptx 10, Ni100, Ni1000, and D100 Resistance Input: 0 to 2000 Ω 11 Thermocouples: B, C, E, J, K, L, N, R, S, T, U Voltage Input: -10 to +500 MV		9 RTD's: Pt100 (3), Pt1000, Ni100, Ni1000, Ptx, Ni120, & Cu10 Maximum Resistance Input: 25 Ω/wire 11 Thermocouples: B, C, E, J, K, L, N, R, S, T, U
Linearization	9 pt Custom Linearization		50 pt Custom Linearization		
	Max Load @ 24 V DC 795 Ω -08 727 Ω -09		Max Load @ 24 V DC 608 Ω -10 521 Ω -11		Max Load @ 24 V DC 725 Ω

Calibration Services Available

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