Industrial Smart Temperature Transmitter

Model: MDTT

Applications

- Monitoring of plants
- Control and regulation of processes
- For gaseous and liquid aggressive
- Process industry: Chemical/petro chemical, power stations, food and beverage, offshore oil rigs, pulp and paper, environmental technology, machine building and general plant construction

Special features

- Accuracy 0.075 and 0.04,0.02
- Dual and single sensor input
- Best accuracy, reproducibility and long-term stability
- Local zero and span adjustments
- The wide LCD and bargraph indicator
- Intrinsically safe and explosion proof
- Easy menu-guided commissioning via local display,
- Out put 4 to 20mA with HART, PROFIBUS PA, FOUNDATION Fieldbus
- Cost savings with modular concept for easy replacement of sensor, display or electronics
- Multi input RTD, Thermocouples & millivolt

Description

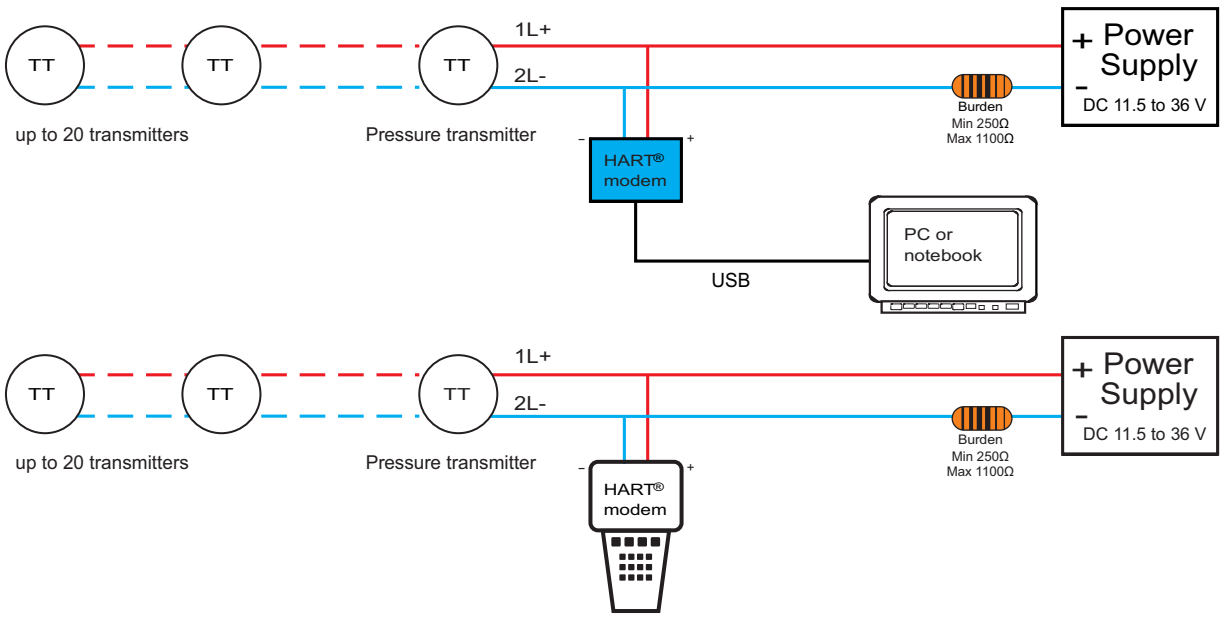
Accuracy class	0.075 standard and 0.04,0.02 (option)
Accuracy stability	Accuracy will be held for the nominal range for a minimum of 3 years
Transfer function	Linear
Response time	0.1 second
Sensor material	Stainless steel 316, Stainless steel 316L Hastelloy, Monel, Tantalum(option)
Process connection	Stainless steel 316, Stainless steel 316L Hastelloy, Monel, Tantalum(option)
Temperature comp. range	-20 to +85 °C
Ambient temperature	-40 to +85 °C

Out put error	± 0.04 * Z °C
Damping	0...60 sec adjustable
Long stability	±0.1%F.S/year
Protection	IP67
Power supply	10 - 36VDC
Output signal	4 ... 20mA, 0.5 ... 4.5VDC, 1 ... 5VDC, 1 ... 10VDC
Intrinsically safe	II 1/2 Ex ia IIC T4/T5
Explosion-proof	II 1/2 Exia/d IIC T5/T6
Pressure port	1/2NPTF, 1/4NPTF or customize
Housing material	Aluminum, Stainless steel
Message	Self diagnosis message
Conduit entry size	1/2NPTF or M20*1.5
shock	50g /11ms
Pressure limit	360 psi

These transmitters can be configured utilizing any of the three following methods: **(1)** locally configuring the instrument (zero, range, shift, characteristics and damping ratio) by means of pushbuttons on the transmitter, **(2)** by a PC with a dedicated interface and the MADECO smart configuration software ;
(3) with having the capability of digital communication, they may be configured using MADECO hand-held terminal with HART protocol or other hand-held communicators*.The data interchange with the transmitter enables the user to identify the transmitter, calibrate the sensor, read the immediate measured value of the input and the current output of the transmitter. User may alter the measurement unit and the range, introduce zero elevation, apply measurement inversion, take a square root or squar the value of the measurement and set the damping time. Additionally the operator may force an output current with a set value.
In the version “with Ex protection Ex II 1/2 G Ex ia IIC T6 Ga/Gb, the transmitter can be mounted within the hazarduos area Zone 1, for connect ion to Zone 0.

MDTT Industrial Smart Temperature Transmitter

ORDERING CODE	Example: MDTT	P	1	S	2	AT	H	N	2	N	W3	Note
Input Sensor												
P - PT100		P										
T - Thermocouple												
M - millivolt												
Measurement Configuration												
1 - Single - sensor input			1									
2 - Dual - sensor input												
Housing material												
A - Aluminum												
S - Stainless Steel				S								
C - Customer												
Conduit Entry Size												
2 - 1/2NPT					2							
4 - M20*1.5												
C - Customer												
Accuracy												
AT - 0.075% (std.)						AT						
AC - 0.04%												
AS - 0.02%												
Transmitter Output												
H - 4...20mA signal based on HART®protocol							H					
F - Foundation™ fieldbus protocol												
P - PROFIBUS®PA Protocol												
L - Low power 1...5 VDC												
W - Wireless												
Certificate												
N - None								N				
I - Intrinsically safe (II 1/2 Ex ia IIC T4/T5)												
E - Explosion proof (II 1/2 Exia/d IIC T5/T6)												
M - Marine certificate-DNV												
Immersion Length												
XXX Please specify in mm									2			
Display												
N - None										N		
D - LCD display												
Options												
BR - Bracket for 2-in.pipe or panel mounting. sst												
CC - Calibration certificate												
CM - Material Traceability certification												
CP - Hydrostatic testing with certificate												
CL - Cleaning for special service												
CR - special calibration range (please specify the range)												
AN - Analog zero and spam trim												
NH - Stainless steel tag wired to case												
AT - ATEX												
W3 - 3 year warranty											W3	
W5 - 5 year warranty												
Other												


TT
TT
TT
1L+
2L-
up to 20 transmitters
Pressure transmitter
HART®
modem
Burden
Min 250Ω
Max 1100Ω
+ Power
Supply
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DC 11.5 to 36 V
PC or
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