

	SMART Temperature Transmitters	20nos.
1.	Inputs	a) Pt100 IEC, Pt100 JIS, Pt100 GOST b) Pt 500 IEC c) Thermocouple N, K d) Ohms e) Millivolts f) Special Ohms (Special 16-point sensor characterization)
2.	Linearizer	Special 16 point sensor linearization. Output should follow Resistance input according to 16 point linearization table.
3.	Output Signal	Two-wire, 4-20mA with superimposed digital communication (HART protocol)
4.	Power Supply	12 to 42 V DC
5.	Range	a) Pt100 IEC, Pt100 GOST: -200 °C to 850 °C b) Pt 500 IEC: -200 °C to 450 °C c) Thermocouple N, K: -100 °C to 1300 °C d) Ohms:0-100, 0-400, 0-2000 ohms e) Millivolts: -50 to 500 mV
6.	Digital Accuracy	a) Pt100 IEC, Pt100 GOST: ± 0.20 °C b) Pt 500 IEC: ± 0.20 °C c) Thermocouple N, K: ± 0.60 °C d) Ohms: $\pm 0.02\%$ or ± 0.20 ohms e) Millivolts: $\pm 0.02\%$ or ± 50 μ V
7.	Minimum span	± 10 °C for RTDs
8.	4-20 mA output D/A accuracy	0.03%
9.	Indicator	Min. 4 1/2-digit LCD indicator
10.	Zero and Span Adjustment	Zero or span capabilities via local adjustment and digital communication.
11.	Temperature Limits	0 to 75°C
12.	Loss of Input (Burnout)	Burnout detection is user selectable. Upscale or down scale with critical status message. For RTD or ohm type inputs; broken wire/wires shall be indicated (3.6 or 21 mA)

13.	Humidity Limits	0-100 % RH
14.	Update time	$\leq 0.5s$
15.	Turn-on Time	<10 seconds
16.	Damping	upto 30 s
17.	Power Supply Effect	0.005 % span per volt
18.	EMI Effect	IEC 61236:2002
19.	Alarm	Dual, trip levels adjustable over entire range. High or Low action Acknowledge, messaging
20.	Configuration	To be done by an external Handheld terminal, that communicates with the transmitter remotely or locally using Hart Protocol.
21.	Hazardous Area Certification	Explosion proof, weather proof and intrinsically safe certified ATEX II 2G EExia IIC T6.
22.	Electrical connection	$\frac{1}{2}$ " - 14 NPT
23.	Enclosure Rating	NEMA 4X, IP67
24.	CJC accuracy for T/C	± 0.25 deg C
25.	Ambient Temp effect for 10°C variation in temperature	RTD (IEC: Pt50, Pt100): 0.04ohm Ohm (0...2000ohm) & RTD (IEC: Pt500): 0.3ohm mV (-10...100 mV) & TC (NBS: E, J, K, N): 15 μ V .
26.	Stability	0.05%URL for 5 years
27.	Storage Temperature	15 to 60 deg C
28.	Ingress Protection	IP66/67
29.	Mounting	Bracket which can be installed on a 2" pipe