



... the level & gas people

ISO-9001 : 2008 CERTIFIED COMPANY



**MODEL No.3100**

**MODEL No.2300**

### TEMPERATURE TRANSMITTER HART WITH 4-20mA OUT PUT

Temperature Transmitter Series 3100/2300 is highly accurate, cost effective and is available with HART protocol. It is galvanically isolated and has internal temperature sensor for active temperature compensation. It is also available in head mounted and 2" pipe mounting (field) version.

#### GENERAL

- Calibration by HART calibrator.
- 2 Wire technology with 4-20mA output.
- Universal transmitter (RTD, T/C, resistance, voltage) settable via HART-protocol
- Universal setting with HART-protocol for various input signals (2 Wire)
- Galvanic isolation
- An internal temperature sensor for active temperature compensation
- Blind transmitter series 2300 also available

### FIELD MOUNTING 2 WIRE TEMPERATURE TRANSMITTER WITH DISPLAY

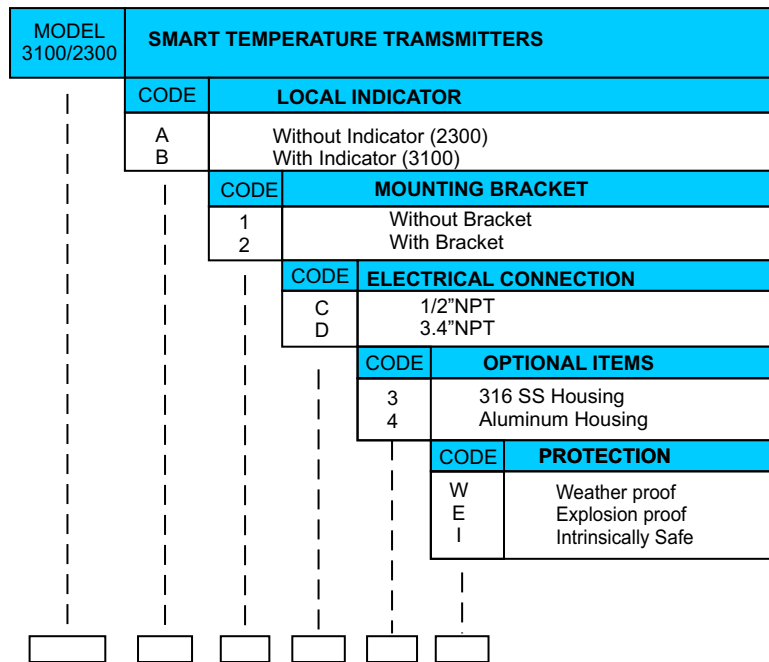
#### TECHNICAL DATA

Series	: 3100/2300
<b>Universal Input</b>	
RTD	: Pt100, Pt500, Pt1000
T/C	: B, E, J, K, N, R, S, T
OHM	: 0.....10kΩ
mV	: -100....200mV
Other input	: on request
Output signal	: 4-20mA + HART protocol
Supply voltage	: 7.5 V.....45 Vdc
Load Max	: 600 Ω at 24 Vdc
Ambient temperature	: -40 to 85°C
Cold junction	: Internal
Galvanic isolation	: 2k VAC (in/Out)
Adjustability	: ± 20% of span
Linearity	: ± 0.25% of span
Accuracy	: ± 0.25% of span.( ± 0.1% on request)
Response time	: within 1 second.
Adjustment	: Zero & span are adjustable by two push button/HHC
Mounting	: 2" pipe mounting
Damping	: 0-32 second

**THERMOCOUPLES REFERENCE DATA (ITS 90)mV v/s Temperature**

TYPE	"T" Cu-CuNi	"J" Fe-CuNi	"K" NiCr-NiAl	"N" NiCrSi-NiSi	"S" PtRh10%-Pt	"R" PtRh13%-Pt	"B" PtRh30%-PtRh6%	"E" NiCr-CuNi	
Calibration	IS 2056/ASTME 230	IS 2057/ASTME 230	IS 2054/ASTME 230	ASTME 230	IS 2055/ASTME 230	IS 2055	IS 6720	ASTME 230	
Tolerances	Standard	± 1°C or ±0.75%	± 2,2°C or ±0.75%	± 2,2°C or ±0.75%	± 2,2°C or ±0.75%	± 1,5°C or ±0.25%	± 1,5°C or ±0.25%	± 0.5% Over 800°C	± 1.7°C or ±0.5%
	Special	± 0.5° Cor ±0.4%	± 1.1° C or ±0.4%	± 1.1° C or ±0.4%	± 1.1° C or ±0.4%	± 0.6° C or ±0.1%	± 0.6° C or ±0.1%	10.25% Over 800°C	± 1.° C or ±0.4%
TEMPERATURE°C	-100	-3,379	-4,633	-3,554	-2,407	-	-	-	-5,237
	0	0	0	0	0	0	0	0	0
	100	4,279	5,269	4,096	2,774	0,646	0,647	0,033	6,319
	200	9,288	10,799	8,138	5,913	1,441	1,469	0,178	13,421
	300	14,862	16,327	12,209	9,341	2,323	2,401	0,431	21,036
	400	20,872	21,848	16,397	12,974	3,259	3,408	0,787	28,946
	500	-	27,393	20,644	16,748	4,233	4,471	1,242	37,005
	600	-	33,102	24,905	20,613	5,239	5,583	1,792	5,093
	700	-	39,132	29,129	24,527	6,275	6,743	2,431	53,112
	800	-	45,494	33,275	28,455	7,345	7,950	3,154	61,017
	900	-	-	37,326	32,371	8,449	9,205	3,957	68,787
	1000	-	-	41,276	36,256	9,587	10,506	4,834	76,373
	1100	-	-	45,119	40,087	10,757	11,850	5,780	
	1200	-	-	48,838	43,846	11,951	13,228	6,786	
	1250	-	-	50,644	45,649	12,554	13,926	7,311	
	1300	-	-	52,410	47,513	13,159	14,629	7,848	
	1400	-	-	-	-	14,373	16,040	8,956	
	1500	-	-	-	-	15,582	17,451	10,099	
1600	-	-	-	-	-	-	11,263		
1700	-	-	-	-	-	-	12,433		

**ORDERING INFORMATION**



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Specifications Subject to change without prior notice