

CATALOG

# Integrated Transmitter Temperature AW2000



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# Product Overview

## AW2000 Integrated Temperature Transmitter

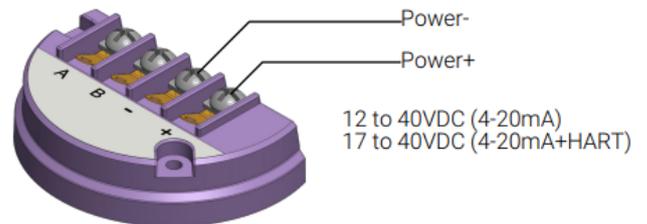
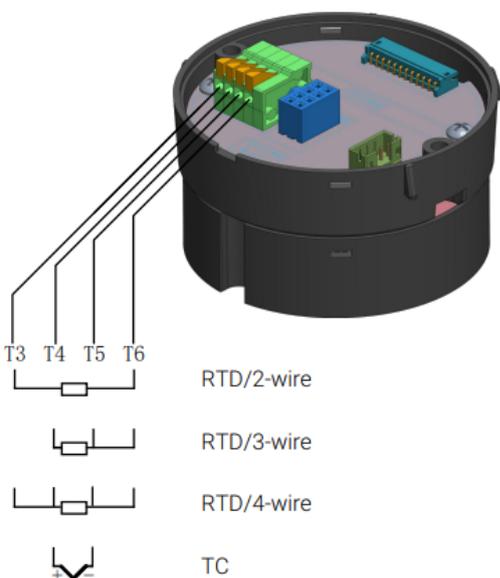
The AW2000 Series Isolated Temperature Transmitter converts universal input signals into a standardized 4-20mA analog output. It delivers outstanding performance with long-term stability, high measurement accuracy, and advanced diagnostic capability. Supported input types include Resistance Temperature Detector (RTD) and Thermocouple (TC) signals



# Technical Specifications

- Output signal: 4-20mA, 4-20mA + HART
- Power supply: 12 to 40 VDC (4-20mA)  
17 to 40 VDC (4-20mA + HART)
- Alarm output: High alarm 21 mA, low alarm 3.8 mA
- Maximum load resistance:  $RL = (U_{Power\ Supply} - 12) / 0.024$
- Initial Power-up initialization time: ≤30 s
- Normal Power-up initialization time: ≤6 s
- Dielectric strength: 500 VAC @ 1 min, with leakage current <2 mA
- Insulation resistance: 500 VDC @ 30 s (input/output terminals short-circuited)

# Connection Diagram



## Model Code

### AW2000 Integrated Temperature Transmitter

Model Type	Code	Description
<b>Sensor type</b>	Z	RTD (Resistance temperature detector)
	R	Thermocouple
<b>Device code</b>	P2	PT100
	P3	PT1000
	C1	CU50
	C2	CU100
	K	Type K (NiCr-NiSi)
	E	Type E (NiCr-CuNi)
	S	Type S (PtRh10-Pt)
	R	Type R (PtRh13-Pt)
	B	Type B (PtRh30-PtRh6)
	N	Type N (NiCrSi-NiSi)
<b>Sensor sheath diameter</b>	J	Type J (Fe-CuNi)
	T	Type T (Cu-CuNi)
	X	Customer specified
	/	Not specified
	6	6mm
<b>Sensor sheath connection</b>	8	8mm
	0	10mm
	X	Customer specified
	/	Assembled type
<b>Connection head length</b>	L	M20×1.5
	M	M27×2
	X	Customer specified
<b>Element type</b>	/	-
	A	60mm
	B	100mm
<b>Element quantity</b>	X	Customer specified
	K	Sheathed
<b>Element quantity</b>	/	Non-sheathed
	/	Single-element
	2	Dual-element

Model Type	Code	Description
<b>Mounting type</b>	1	No fixed mounting
	2	Fixed thread
	3	Compression thread
	4	Fixed flange
	5	Compression flange
	X	Customer specified
<b>Process connection material</b>	S4	SS304
	S6	SS316L
	X	Customer specified
<b>Process connection Spec.</b>	/	N/A (for no fixed mounting)
	L	M20×1.5 (Dia.≤16mm)
	M	M27×2 (Dia.≤23mm)
	P	M33×2 (Dia.≤28mm)
	G	G1/2
	N	1/2"NPT
	A	HG20592-2009 DN20
	B	HG20592-2009 DN25
	C	HG20592-2009 DN32
	D	HG20592-2009 DN40
	E	HG20592-2009 DN50
	F	HG20592-2009 DN65
	H	HG20592-2009 DN80
	X	Customer specified
	<b>Flange pressure rating</b>	/
1		PN10
2		PN16
3		PN25
4		PN40
5		PN63
6		PN100
7		PN160
X		Customer specified
<b>Delimiter</b>	-	-
<b>Output signal</b>	1	4-20mA + HART
	2	4-20mA
<b>Display type</b>	M	LCD Display
	/	No Display

Model Type	Code	Description
<b>Housing style</b>	1	Die-cast Aluminium, M20×1.5 conduit entry
	2	Die-cast Aluminium, 1/2"NPT conduit entry
	3	SS316, M20×1.5 conduit entry
	4	SS316, 1/2"NPT conduit entry
<b>Explosion Proof</b>	d	Flameproof Ex db IIC T4...T6 Gb
	i	Intrinsic Safety Ex ia IIC T1...T4 Gb
	None	Non-explosion proof
<b>Thermowell type</b>	G	Tubular
	Z	Solid-drilled darstock (Max. length 1m)
	X	Customer specified
<b>Thermowell style and diameter</b>	12	Straight Ø12mm
	16	Straight Ø16mm
	20	Straight Ø20mm
	25	Straight Ø25mm
	1	Tapered Ø16/23mm (Root dia. 23mm, Tip dia. 16mm)
	2	Tapered Ø21/25mm (Root dia. 25mm, Tip dia. 21mm)
	X	Customer specified
<b>Thermowell material</b>	A	SS304
	H	SS316L
	HC	Hastelloy C
	TA	Tantalum
	P	SS316L + PTFE
	S	SS310S
	B	GH3030 Alloy
	C	GH3039 Alloy
	R	Corundum (Al <sub>2</sub> O <sub>3</sub> ≥99%)
X	Customer specified	
<b>Insertion length</b>	A	100mm
	B	101 to 300mm
	C	301 to 600mm
	D	601 to 900mm
	E	901 to 1200mm
	F	1201 to 1500mm
	G	1501 to 2000mm
	H	2001 to 2500mm
	I	2501 to 3000mm
X	Customer specified (specify in mm)	



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