

IPAQ C520

HART Compatible Universal Dual-input 2-wire Transmitter



The IPAQ C520 transmitters are universal, isolated, dual-input temperature transmitters with additional voltage and resistance input. C520X/C520XS are Intrinsically Safe versions for use in Ex-Zone 0, 1 and 2.

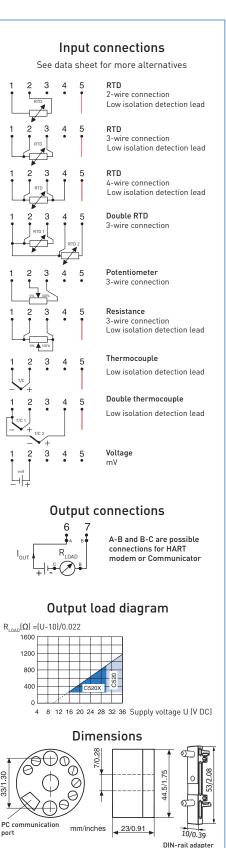
The transmitters are compatible with the HART 6 protocol.

Typical characteristics are the high accuracy, stability and reliability combined with a robust housing.

- Universal, dual-input for RTD and T/C
- SIL 2 compatible according to IEC 61508-2
- 5 year guaranted stability
- Withstands 10 g vibrations
- Complies with NAMUR NE 21, NE 43, NE 53, NE 89 and NE 107
- EMC immunity according to Criteria A
- Sensor Backup
- Sensor Drift Monitoring
- Sensor Isolation Monitoring
- Sensor matching
- 50 point customized linearization
- Integrated in Emerson AMS and Siemens PDM systems

Specifications:

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(IEC 60751, α=0.00385)	-200 to +850 °C
(IEC 60751, α=0.00385)	Corresp. to max. 4 000 Ω
(JIS C 1604, α=0.003916)	-200 to +850 °C
(DIN 43760)	-60 to +250 °C
(Edison Curve No. 7)	-60 to +250 °C
(DIN 43760)	-50 to +180 °C
(Edison Cu Windings No. 15)	-50 to +200 °C
One sensor	2-, 3- and 4-wire connection
Two sensors	2- and 3-wire connection
T/C types	B, C, D, E, J, K, N, R, S, T
Potentiometer	100 to 4000 Ω, 2-, 3- and 4-wire connection
	-10 to +1000 mV
Thermocouple	
	T1 or T2 or difference, average, min, max of T1 and T2
	Automatic switchover to undamaged sensor
	Adjustable maximum temp. difference T1-T2
Temperature linear	4-20 mA, 20-4 mA or customized
Measure and fail currents	NAMUR, NE 43
	1500 VAC, 1 min
C520X/C520XS	ATEX: II 1G Ex ia IIC T6T4 Ga ¹⁾
	IECEx: Ex ia IIC T6T4 Ga ¹⁾
C520/C520S	1036.0 VDC, Standard power supply
C520X/C520XS	1030.0 VDC, I.S. power supply
Storage/operation	-40 to +85 °C
	Max. of ±0.1 °C or ±0.05 % of span
RTD (Pt and Ni sensors)	Max. 01 ±0.1 C 01 ±0.05 % 01 span
Thermocouple	Typical ±0.05 % of span
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	(IEC 60751, α=0.00385) (JIS C 1604, α=0.003916) (DIN 43760) (Edison Curve No. 7) (DIN 43760) (Edison Cu Windings No. 15) One sensor Two sensors T/C types Potentiometer Thermocouple C520X/C520XS C520X/C520XS C520X/C520XS



Ordering information

-	IPAQ C520	70C5200010
-	IPAQ C520S, SIL 2 compatible	70C5200S10
-	IPAQ C520X	70C520X010
-	IPAQ C520XS, SIL 2 compatible	70C520XS10
-	ICON PC configuration kit (USB-conn.)	70CFGUSX01
-	Configuration	70CAL00001
-	Head mounting kit - 10 pcs	70ADA00027
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¹⁾ For Tambient, see the manual

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