IPAQ C520



HART Compatible Universal Dual-input 2-wire Transmitter



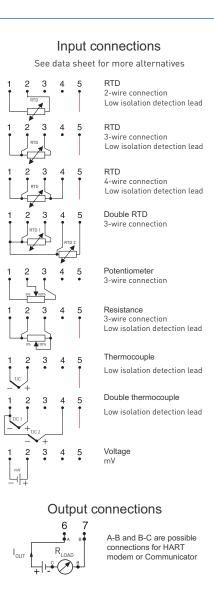
The IPAQ C520 transmitters are universal, isolated, dual-input temperature transmitters with additional voltage and resistance input.

C520X/C520XS are Intrinsically Safe versions for use in Ex-Zone 0, 1 and 2. The transmitters are compatible with the HART 6 protocol.

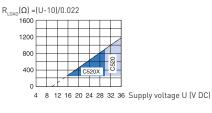
Typical characteristics are the high accuracy, stability and reliability combined with a robust housing.

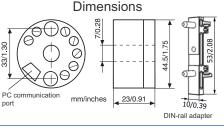
- Universal, dual-input for RTD and T/C
- SIL 2 compatible according to IEC 61508-2
- 5 year guaranted stability
- Withstands 10 g vibrations
- Complies with NAMUR NE 21, NE 43, NE 53, NE 89 and NE 107
- EMC immunity according to Criteria A
- Sensor Backup
- Sensor Drift Monitoring
- Sensor Isolation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

Specifications: Input RTD (IEC 60751, α=0.00385) -200 to +850 °C Pt100 $PtX (10 \le X \le 1000)$ (IEC 60751, α=0.00385) Corresp. to max. 4 000 Ω Pt100 (JIS C 1604, a=0.003916) -200 to +850 °C Ni100 (DIN 43760) -60 to +250 °C Ni120 (Edison Curve No. 7) -60 to +250 °C Ni1000 (DIN 43760) -50 to +180 °C Cu10 (Edison Cu Windings No. 15) -50 to +200 °C Input connections 2-, 3- and 4-wire connection One sensor Two sensors 2- and 3-wire connection Input Thermocouple T/C types B, C, D, E, J, K, N, R, S, T Input Resistance Potentiometer 100 to 4000 Ω_{r} 2-, 3- and 4-wire connection Input Voltage -10 to +1000 mV Double inputs for RTD and Thermocouple Measure mode T1 or T2 or difference, average, min, max of T1 and T2 Automatic switchover to undamaged sensor Sensor Redundancy Sensor Drift Monitoring Adjustable maximum temp. difference T1-T2 Output 4-20 mA, 20-4 mA or customized Output signal Temperature linear NAMUR compliance Measure and fail currents NAMUR, NE 43 Galvanic isolation 1500 VAC, 1 min C520X/C520XS ATEX: II 1G Ex ia IIC T6...T4 Ga1 Ex-classifications IECEx: Ex ia IIC T6...T4 Ga11 C520/C520S 10...36.0 VDC, Standard power supply Power supply 10...30.0 VDC, I.S. power supply C520X/C520XS Ambient temperature Storage/operation -40 to +85 °C RTD (Pt and Ni sensors) Max. of ±0.1 °C or ±0.05 % of span Accuracy Thermocouple Typical ±0.05 % of span Resistance/voltage See data sheet Max. drift: ±0.05 % of span / 5 years Long-term stability Connection head DIN B or larger



Output load diagram





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 |

¹⁾ For Tambient, see the manual

" For lampient, see the manual

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