

APAQ R130^{TC}

Basic Programmable 2-wire Transmitter for Thermocouple



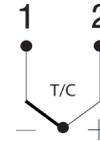
The APAQ R130^{TC} is a modern transmitter with high reliability and great performance. External influences such as ambient temperature, vibration, moisture and EMC interference have minimal influence on the measurement result, thanks to the robust design.

- Type: Digital
- Input: TC
- Output: 4-20 mA
- Isolation: Unisolated
- Measuring channels: 1 channel

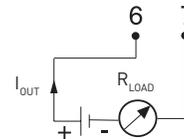
Specifications:

Input	
TC type B - Pt30Rh-Pt6Rh (IEC 60584)	0...+1820 °C / +32...+3308 °F
TC type E - NiCr-CuNi (IEC 60584)	-270...+1000 °C / -454...+1832 °F
TC type J - Fe-CuNi (IEC 60584)	-210...+1200 °C / -346...+2192 °F
TC type K - NiCr-NiAl (IEC 60584)	-270...+1300 °C / -454...+2372 °F
TC type N - NiCrSi-NiSi (IEC 60584)	-270...+1300 °C / -454...+2372 °F
TC type R - Pt13Rh-Pt (IEC 60584)	-50...+1750 °C / -58...+3182 °F
TC type S - Pt10Rh-Pt (IEC 60584)	-50...+1750 °C / -58...+3182 °F
TC type T - Cu-CuNi (IEC 60584)	-270...+400 °C / -454...+752 °F
Adjustments	
Minimum span	
TC type B	700 °C / 1260 °F
TC type R, S,	300 °C / 540 °F
TC type E, J, K, T	50 °C / 90 °F
TC type N	100 °C / 180 °F
Zero adjustments	Any value within range limits
Output	
4-20 mA, temperature linear	
Sensor failure indication	
Upscale (≥21.0 mA) or downscale (≤3.6 mA)	
NAMUR compliance	
Current limitations and failure currents acc. to NAMUR NE 43	
Response time	
0.4 to 26 s, adjustable filtering level	
Ambient temperature	
Storage and operation -40 to +85 °C / -40 to +185 °F	
Galvanic isolation	
None	
Power supply	
6 to 32 VDC	
Typical accuracy	
Max. of (CJC not included)	
TC type R, S, T	±2.0 °C or ±0.2 % of span / ±3.6 °F or ±0.2 % of span
TC type B (<100 °C / <212 °F)	not specified
TC type B (100 °C...400 °C / 212 °F...752 °F)	± 10 °C / ± 18 °F
TC type B (>400 °C / >752 °F)	±2.0 °C or ±0.2 % of span / ±3.6 °F or ±0.2 % of span
TC type E, J, K	±1 °C or ±0.2 % of span / ±1.8 °F or ±0.2 % of span
TC type N [-100...+1300 °C]	±1 °C or ±0.2 % of span / ±1.8 °F or ±0.2 % of span
TC type N [-270...-100 °C]	±2.0 °C / ±3.6 °F
Mounting	
35 mm DIN rail acc. to EN 60715	
Vibration	
Acc. to IEC 60068-2-6, test Fc, 10...2000 Hz, 5 g	
EMC	
EN 61326-1 and EN 61326-2-3	
Configuration	
App Inor Connect via NFC	

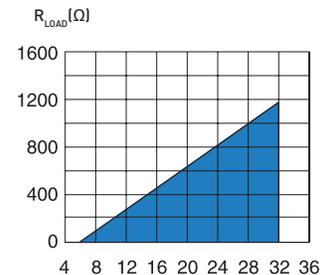
Input connections



Output connections



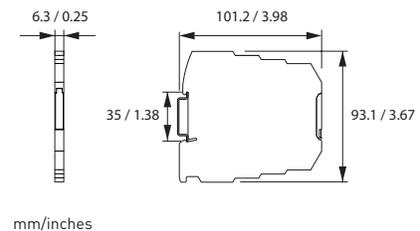
Output load diagram



Supply voltage U (V DC)

$$R_{LOAD} = (U - 6) / 0.022$$

Dimensions



Ordering information

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