

# APAQ C130<sup>TC</sup>

## Programmable 2-wire Transmitter for Thermocouple



The APAQ C130<sup>TC</sup> 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

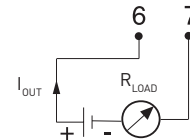
### Specifications:

<b>Input</b>	2-wire connection
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
<b>Adjustments</b>	
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
<b>Output</b>	4-20 mA, temperature linear
<b>Sensor failure indication</b>	Upscale (≥21.0 mA) or downscale (≤3.6 mA)
<b>NAMUR compliance</b>	Current limitations and failure currents acc. to NAMUR NE 43
<b>Response time</b>	0.4 to 26 s, adjustable filtering level
<b>Ambient temperature</b>	
Storage and operation	-40 to +85 °C / -40 to +185 °F
<b>Galvanic isolation</b>	None
<b>Power supply</b>	6 to 32 VDC
<b>Typical accuracy</b>	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
<b>Mounting</b>	DIN B-head or larger
<b>Vibration</b>	Acc. to IEC 60068-2-6, test Fc, 10...2000 Hz, 10 g
<b>EMC</b>	EN 61326-1 and EN 61326-2-3
<b>Configuration</b>	App Inor Connect via NFC™

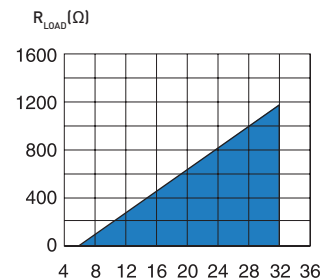
### Input connections



### Output connections



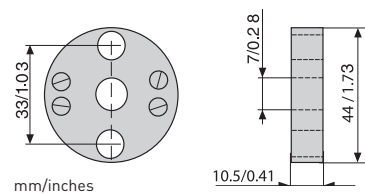
### Output load diagram



Supply voltage U [V DC]

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

### Dimensions



### Ordering information

APAQ C130 <sup>TC</sup>	70C1300211
Head mounting kit	70ADA00017
DIN-rail Adapter + Screw (10 pcs)	70ADA00027