

INOR Pt100 Programmable 2 Wire Transmitter User Manual

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GENERAL INFORMATION

APAQ C130RTD is a low cost, non-isolated, easy-to-use 2-wire temperature transmitter for Pt100 and Pt1000 input, intended to be used in industrial environment.

The transmitter is configured from a mobile device via NFC communication, by using the app INOR Connect. Inor Connect is available for free download on App Store, Google Play Store and Huawei AppGallery.

DATA (short form)

Input	2-, 3-, 4-wire connection
Pt100 (IEC 60751, α=0.00385)	200 to +850 °C / -328 to +1562 °F
Pt1000 (IEC 60751, α=0.00385)	200 to +850 °C / -328 to +1562 °F
Adjustments – Zero	Any value within range limits
Adjustments – Minimum span	20 °C / 36 °F
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

Accuracy	Max. of ±0,15 K or ±0,15 % of span
Mounting	DIN B-head or larger
Vibration	IEC 60068-2-6,10 g
EMC	EN 61326-1 and EN 61326-2-3
Configuration	App INOR Connect via NFC
Factory settings	
Input	Pt100 3W, 0 to 100 °C
Output	4 to 20 mA
Sensor error indication	Upscale

CONFIGURATION

Before making a configuration of APAQ C130RTDyou need to do following:

- 1. Make sure that you have a mobile device with NFC communication activated
- 2. Download the app INOR Connect to your mobile device

Required versions:

iOS iOS 13 or later and lphone 7 or later for NFC

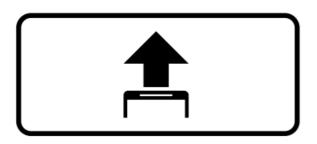
Android

Android 4.4 or later

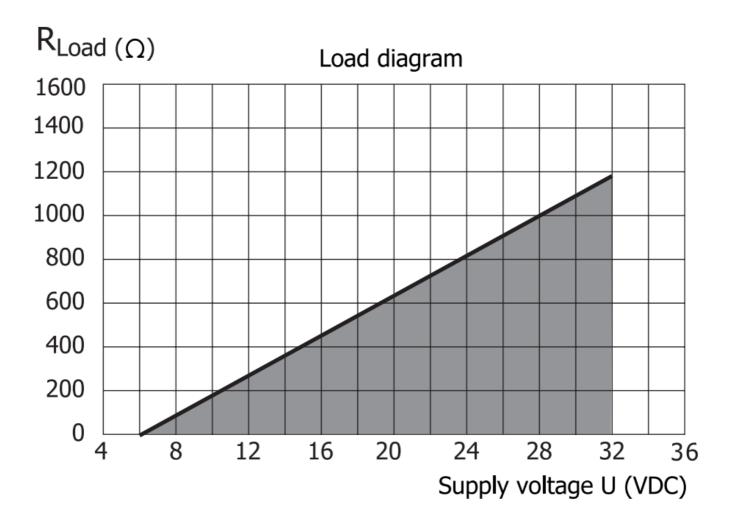


Configuration procedure:

- 1. Launch the app by clicking on the App icon or holding your mobile device against the transmitter on the part of the device where NFC is located (only possible with Android).
- 2. Click on "Read Configuration" and hold your mobile device against the transmitter as explained in the first section.
- 3. In the app you can edit the following:
 - Sensor type and number of wires
 - · Measuring range
 - Upscale or downscale Sensor error indication
 - Filter level
 - TAG-number
 - Password
- 4. Once you have set the desired values in the app, you transfer it to the transmitter by clicking the transfer button and holding the mobile device against the transmitter until a green check box appears confirming that the transfer has been completed.



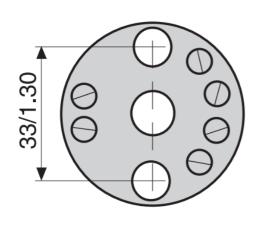
OUTPUT LOAD DIAGRAM

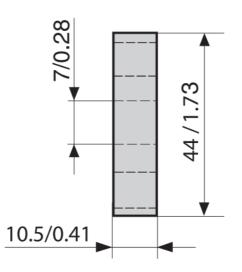


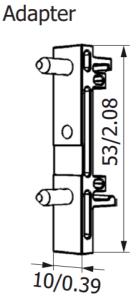
Maximum load depending on power supply Formula for the max. permissible output load for APAQ C130RTD:

R = (U-6)/0.022 Load

DIMENSIONS







DIN-rail

mm/inches

INSTALLATION

APAQ C130RTD is designed to fit inside connection heads type DIN B or larger. The larger center hole, diameter 7 mm/0.28 inch, facilitates the pulling through of the sensor leads or an insert tube, greatly simplifying the mounting procedure.

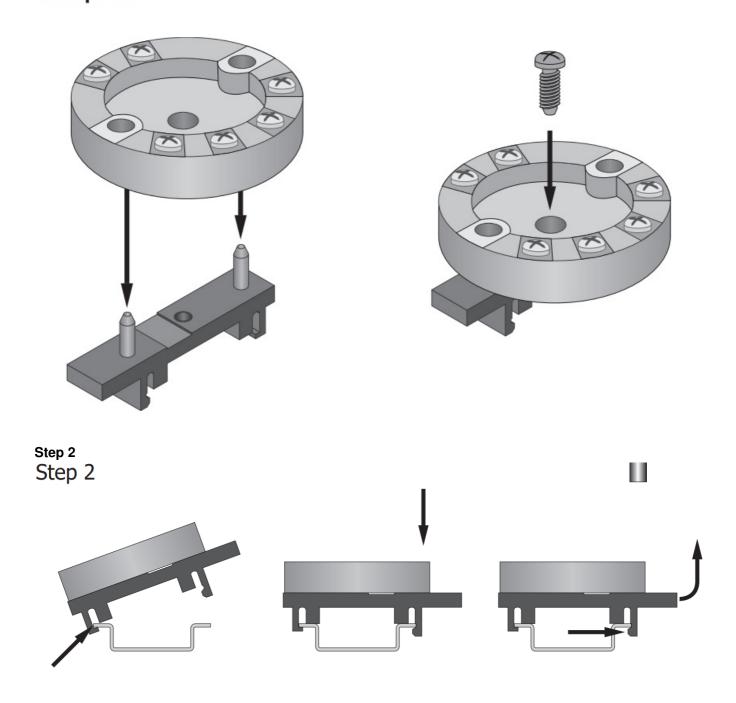
Connect input, output and power supply acc. to "CONNECTIONS". A convinient way to install the transmitter is to use the INOR mounting kits for in-head and DIN rail mounting. In order to minimize measuring errors make sure the connecting screws are tightened enough, 0.5-0.6 Nm.

MOUNTING

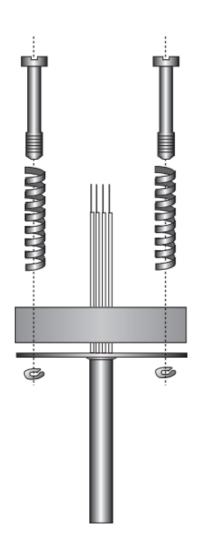
How to mount on DIN-rail Adapter

Step 1

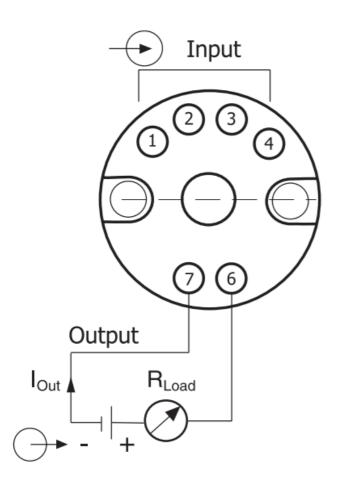
Step 1

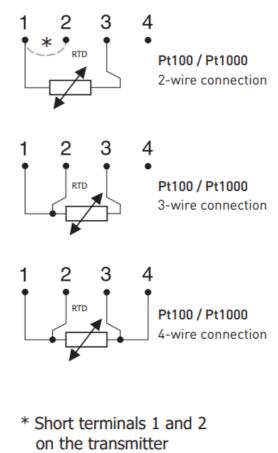


Head mounting kit



CONNECTIONS





ORDERING INFORMATION

- APAQ C130 70C1300011
- Head mounting kit 70ADA00017
- DIN-rail Adapter + Screw (10 pcs) 70ADA00027

The transmitters are delivered with either a default factory setting or configured according to customer's specification.

LIMITED WARRANTY

INOR Process AB, or any other affiliated company within the Inor Group (hereinafter jointly referred to as "Inor"), hereby warrants that the Product will be free from defects in materials or workmanship for a period of five (5) years from the date of delivery ("Limited Warranty"). This Limited Warranty is limited to repair or replacement at Inor's option and is effective only for the first end-user of the Product. Upon receipt of a warranty claim, Inor shall respond within a reasonable time period as to its decision concerning:

- 1. Whether Inor acknowledges its responsibility for any asserted defect in materials or workmanship; and, if so,
- 2. The appropriate cause of action to be taken (i.e. whether a defective product should be replaced or repaired by lnor).

This Limited Warranty applies only if the Product:

- 1. is installed according to the instructions furnished by Inor;
- 2. is connected to a proper power supply;
- 3. is not misused or abused; and
- 4. there is no evidence of tampering, mishandling, neglect, accidental damage, modification or repair without the approval of lnor or damage done to the Product by anyone other than lnor.

This Limited Warranty is provided by Inor and contains the only express warranty provided.

INOR SPECIFICALLY DISCLAIMS ANY EXPRESS WARRANTY NOT PROVIDED HEREIN AND ANY IMPLIED WARRANTY, GUARANTEE OR REPRESENTATION AS TO SUITABILITY FOR ANY PARTICULAR PURPOSE, PERFORMANCE, QUALITY AND ABSENCE OF ANY HIDDEN DEFECTS, AND ANY REMEDY FOR BREACH OF CONTRACT, WHICH BUT FOR THIS PROVISION, MIGHT ARISE BY IMPLICATION, OPERATION OF LAW, CUSTOM OF TRADE OR COURSE OF DEALING, INCLUDING IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. EXCEPT AS PROVIDED HEREIN, INOR FURTHER DISCLAIMS ANY RESPONSIBILITY FOR LOSSES, EXPENSES, INCONVENIENCES, SPECIAL, DIRECT, SECONDARY OR CONSEQUENTIAL DAMAGES ARISING FROM OWNERSHIP OR USE OF THE PRODUCT.

Products that are covered by the Limited Warranty will either be repaired or replaced at the option of Inor. Customer pays freight to Inor, and Inor will pay the return freight by post or other "normal" way of transport. If any other type of return freight is requested, customer pays the whole return cost.



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Pt100, Programmable 2 Wire Transmitter, Pt100 Programmable 2 Wire Transmitter, 2 Wire Transmitter, Transmitter

References

- O GmbH.de
- Start INOR
- Start KROHNE INOR

Manuals+,