



ATT1 – SIGNAL TRANSMITTER

WITH 3 CUSTOM LINEARIZATIONS AVAILABLE

- Input from RTD (Pt100, Pt 1000, Ni100), TC (B, E, J, K, N, R, S, T), mV (-10... +70 mV);
- Potentiometer (0... 400 Ω / 0... 4 k Ω);
- Three custom linearizations (up to 96 segments);
- Accuracy: better than 0.1% fs;
- Configurable by PC plus RF programmer or by Programmer APP (free of charge);
- Cold junction compensation disabling;
- Programmable retransmitted range;
- Operating temperature: -40... +85°C;
- Compliance with CE, EN 61326-1;
- Calibration according to EN 60584-1: 2013, EN60751: 2008.

FIELDS OF APPLICATIONS

- LINEARIZED TEMPERATURE MEASUREMENT FOR SIGNALS COMING FROM:
 - RTD (PT 100, PT 1000, NI 100, CUSTOM 0... 400 Ω , CUSTOM 0... 4 k Ω)
 - THERMOCOUPLES (B, E, J, K, N, R, S, T, CUSTOM)
 - mV
- CONVERSION OF A LINEAR mV SIGNAL INTO A STANDARD 4... 20 mA SIGNAL
- POTENTIOMETER INPUT
- SUITABLE FOR HIGH AND LOW IMPEDANCE INPUTS

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 = OHSAS 18001 =

SPECIFICATION (@ 20°C)

- Sensor Types

PT100 Measuring range: -200... +620°C;
Resistance range: 18.5... 320.0 Ω;
Connection: 2, 3, 4 wires;

PT1000 Measuring range: -200... +620°C;
Resistance range: 185... 3200 Ω;
Connection: 2 wires;

NI100 Measuring range: -50... +170°C;
Resistance range: 69... 223 Ω;
Connection: 2, 3, 4 wires;

TC B Measuring range: +40... +1860°C;

TC E Measuring range: -260... +960°C;

TC J Measuring range: -200... +1220°C;

TC K Measuring range: -260... +1380°C;

TC N Measuring range: -260... +1300°C;

TC R Measuring range: -40... +1780°C;

TC S Measuring range: -40... +1780°C;

TC T Measuring range: -260... +420°C;

mV Input measuring range: -10... +70 mV.

- General specifications

RTD excitation current < 500 µA;

RTD maximum wire resistance: 20 Ω per wire;

Operating range: 7... 30 Vdc;

Current output: 4... 20 mA (2 wires);

Output resolution: 2 µA;

Over-range output: High Range +5°C;

Under-range output: Low Range -5°C;

Failure output: Selectable 21 mA, 3.8mA or anyone;

Current output protection: 30 mA approx.;

Rejection: 50-60 Hz;

Accuracy: greater than 0.1% range;

Temperature drift: < 100 ppm;

Sampling time: 100 ms;

No filter: 200 ms;

Response time (10% input, 90% Output): Medium filter: 1 s;

Strong filter: 4 s;

Protection: IP 20;

Compliance: CE, EN 60326-1;

Operating temperature: -40... +85°C;

Humidity: 30... 90% @ 40°C (non condensing);

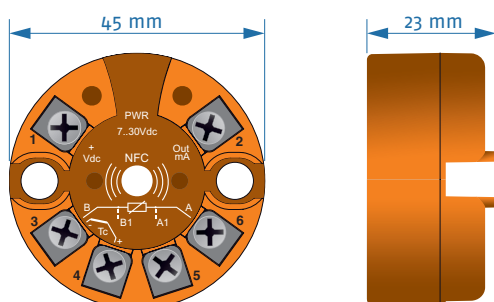
Storage temperature: -40... +105°C;

Connections: Screw terminals;

Enclosure: PA66;

Dimensions: Ø45 mm, thickness 23 mm.

DIMENSIONS



ACCESSORIES (AFC1: NFC Programmer Kit)



CONFIGURATION

The **ATT1** configuration can be done with two different tools:

- An Android smartphone equipped with NFC and ATNFC APP or
- A "Windows" PC equipped with an RF programmer (AFC1) and ATNFC-Soft program.

Both programs can be downloaded (free of charge) from the download area of our website: www.ascontecnologic.com

Using these tools it will be possible to configure: sensor type, retransmitted range setting and burn out indication, and can also be used to see the current measured value and to print all data (configuration).

In addition, by ATNFC-Soft, the user will be able to freely prepare and download his own custom linearization.

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