



# 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  $\Omega$  / 0... 4 k $\Omega$ );
- 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  $\Omega$ , CUSTOM 0... 4 k $\Omega$ )
  - 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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COMPANY WITH  
MANAGEMENT SYSTEM  
CERTIFIED BY DNV GL  
= ISO 9001 =  
= 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);

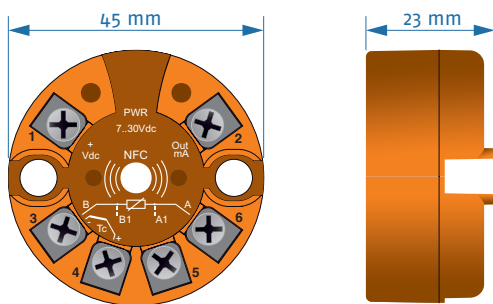
Storage temperature: -40... +105°C;

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](http://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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