

ATT1 - SIGNAL TRANSMITTER

FOR ALL SENSORS

- Input from RTD (Pt100, Pt 1000, Ni100), TC (B, E, J, K, N, R, S, T) and mV (-10... +70 mV);
- Potentiometer (10... 400 Ω /10... 4 k Ω);
- **Three custom linearizations** (up to 96 segments);
- **Reversible output** (e.g.: 20... 4 mA);
- **Accuracy: better than 0.2% fs**;
- Configurable by PC plus RF programmer or by smartphone (using a free of charge APP);
- 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

- MACHINE TOOLS;
- OLEODYNAMIC SYSTEMS;
- COOLING AND LUBRICATION SYSTEMS;
- ALL KINDS OF PLANTS;
- CONVERSION OF A LINEAR mV SIGNAL INTO A STANDARD 4... 20 mA SIGNAL;
- LINEARIZATION OF NO STANDARD SENSORS.

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COMPANY WITH
MANAGEMENT SYSTEM
CERTIFIED BY DNV GL
= ISO 9001 =
= OHSAS 18001 =

SPECIFICATION (@ 20°C)

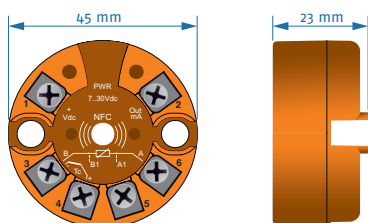
- Sensor Types

Pt100	Measuring range: -200... +800°C, Connection: 2, 3, 4 wires, Accuracy: 0.1 % FS ±10 µA;
Pt1000	Measuring range: -200... +800°C, Connection: 2 wires, Accuracy: 0.1 % FS ±10 µA;
Ni100	Measuring range: -60... +180°C, Connection: 2, 3, 4 wires, Accuracy: 0.5 % FS ±10 µA;
TC B	Measuring range: +40... +1820°C;
TC E	Measuring range: -200... +940°C;
TC J	Measuring range: -200... +1200°C;
TC K	Measuring range: -200... +1340°C;
TC N	Measuring range: -200... +1280°C;
TC R	Measuring range: -40... +1760°C;
TC S	Measuring range: -40... +1760°C;
TC T	Measuring range: -200... +400°C;
mV	Measuring range: -10... +70 mV, Accuracy: 0.1 % FS;
Potentiometer low	10... 400Ω, Connection: 2, 3, 4 wires, Accuracy: 0.1% FS ±10 µA;
Potentiometer High	10... 4 kΩ, Connection: 2 wires, Accuracy: 0.1 % FS ±10 µA.

- General specifications

RTD excitation current < 200 µA;
 RTD maximum wire resistance: 20Ω per wire;
 TC input total accuracy: 0.2% FS ±10 µA (for B thermocouple, this accuracy can be obtained only in the range 400... 1820°C);
 CI accuracy: ±0.5°C;
 CI thermal drift: 0.1°C/°C;
 Operating range: 7... 30 Vdc;
 Current output: 4... 20 mA (2 wires);
 Output resolution: 2 µA;
 Over-range output: +5°C;
 Under-range output: -5°C;
 Failure output: Selectable between 21 mA, 3.8 mA or any other value;
 Rejection: 50... 60 Hz;
 Temperature drift: < 100 ppm;
 Sampling time: 300 ms;
 Response time (10%input, 90% output):
 - No filter: 200 ms,
 - Medium filter: 2 s,
 - Strong filter: 4 s;
 Protection: IP 20;
 Compliance: CE, EN 61326-1;
 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 performed with two different tools:

- An Android smartphone equipped with **NFC** capabilities and **ATNFC APP** or
- A "Windows" PC equipped with the **RF programmer (AFC1)** and **ATNfcSoft** program.

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

Using these tools it's possible to: configure the type of sensor, the retransmitted range, etc., to store all the desired configurations, to send a stored configuration to a new device, print all the data. Moreover, with ATNfcSoft, the user will be able to freely prepare and download his customized linearization.

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