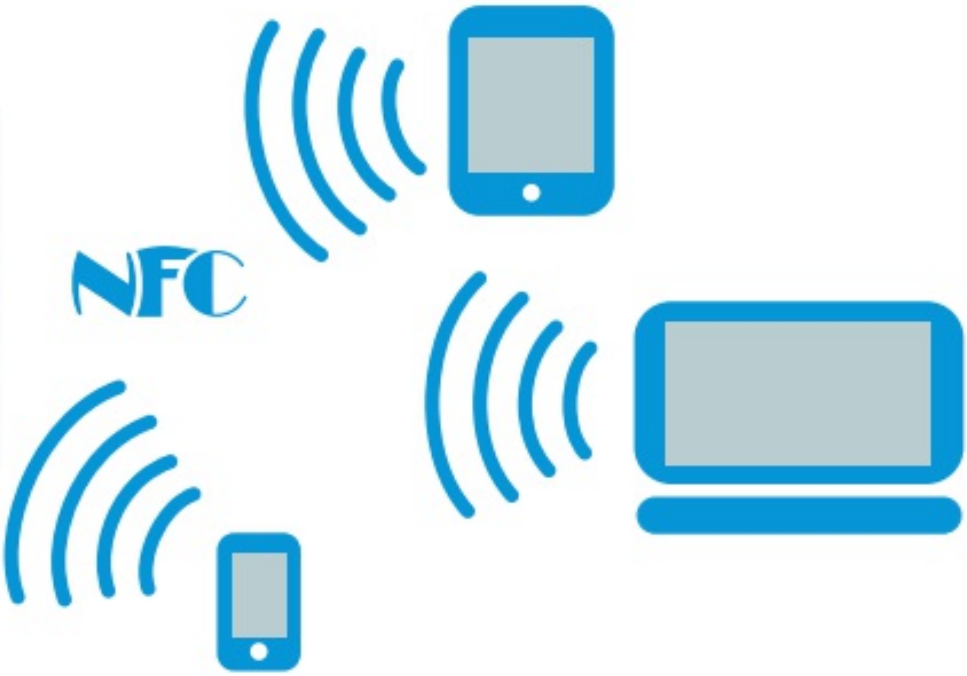
CATÁLOGO TRANSMISSOR DE SINAL PARA SENSORES DE TEMPERATURA ATT1



ATT1 - SIGNAL TRANSMITTER

WITH 3 CUSTOM LINEARIZATIONS AVAILABLE

- Input from RTD (Pt100, Pt 1000, Ni100), TC (K, S, R, J, T, N, B, E), mV (-10... +70 mV);
- Potentiometer (0... 400Ω / 0... 4kΩ);
- Three custom linearizations (up to 50 segments);
- Accuracy: better than 0.1°C;
- 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 IEC 60584-1: 1995 (ITS 90).

FIELDS OF APPLICATIONS

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

SPECIFICATION (@ 20°C)

- Sensor Types

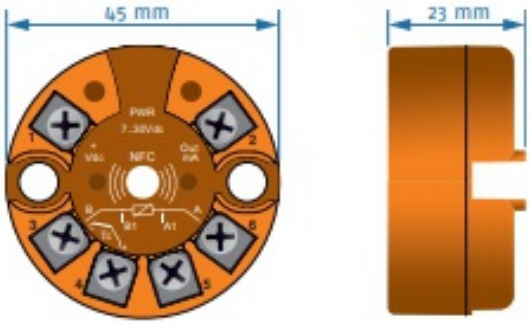
PT100 Measuring range: -200... +620°C;
Resistance range: 18.5... 320.0 Ω;
Connection: 2, 3, 4 wires;

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 K Measuring range: -260... +1380°C;
TC S Measuring range: -40... +1780°C;
TC R Measuring range: -40... +1780°C;
TC J Measuring range: -200... +1220°C;
TC T Measuring range: -260... +420°C;
TC N Measuring range: -260... +1300°C;
TC B Measuring range: +40... +1860°C;
TC E Measuring range: -260... +960°C;
mV Input measuring range: -10... +70 mV.

DIMENSIONS



- General specifications

RTD excitation current < 500 µA;
RTD Maximum wire resistance: 20 Ω per wire;
Operating range: 9... 30 Vdc;
Current output: 4... 20 mA (2 wires);
Output resolution: 2 µA;
Over-range output: f.s. +5°C;
Under-range output: l.s. -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% F.S.;
Temperature drift: < 100 ppm;
Sampling time: 100 ms;

Response time (10% input, 90% Output):	
No filter:	200 ms
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.

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 download (free of charges) 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, but 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.