



**Signal transmitter  
(not insulated/Insulated)**



For head mounting

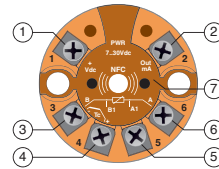
**General description**

ATT1 /ATT1-I is a signal transmitter (Not insulated/Insulated) capable of accepting in input various types of sensors and retransmitting their signals with a programmable range. The transmitter accepts input signals from:

- Pt100** Measuring range: -200... +800°C  
Type of connection: 2, 3, 4 wires - Accuracy: 0.1% fs ±10 µA
- Pt1000** Measuring range: -200... +800°C,  
Type of connection: 2 wires - Accuracy: 0.1% fs ±10 µA
- Ni100** Measuring range: -60... +180°C,  
Type of connection: 2, 3, 4 wires - Accuracy: 0.5% fs ±10 µA
- TC B** Measuring range: 40... 1820°C  
Accuracy: 0.2% fs ±10 µA only in the range 900... 1800°C
- TC E** Measuring range: -200... +940°C - Accuracy: 0.2% fs ±10 µA
- TC J** Measuring range: -200... +1200°C - Accuracy: 0.2% fs ±10 µA
- TC K** Measuring range: -200... +1340°C - Accuracy: 0.2% fs ±10 µA
- TC N** Measuring range: -200... +1280°C - Accuracy: 0.2% fs ±10 µA
- TC R** Measuring range: -40... +1760°C - Accuracy: 0.2% fs ±10 µA  
(only in the range 400... 1760°C)
- TC S** Measuring range: -40... +1760°C - Accuracy: 0.2% fs ±10 µA  
(only in the range 400... 1760°C)
- TC T** Measuring range: -200... +400°C - Accuracy: 0.2% fs ±10 µA  
(only in the range -100... +400°C)
- mV** Measuring range: -10... +70 mV - Accuracy: 0.1% fs
- Potentiometer 10... 400 Ω** Type of connection: 2, 3, 4 wires  
Accuracy: 0.1% fs ±10 µA
- Potentiometer 10... 4000 Ω** Type of connection: 2 wires  
Accuracy: 0.1% fs ±10 µA
- Output** It transmits 4... 20 mA current signals

The transmitter can be programmed using an Android Smartphone equipped with the **NFC** functionalities and the APP **ATN-fc** or using a PC with the **AFC1** transmitter and the **ATNfcSoft** program.

**Instrument description**



- 1, 2 Power/Output terminals (2 wires transmitter)
- 3, 4, 5, 6 Input terminals
- 7 **Orange** label: **Not insulated** transmitter (**ATT1**)  
**Blu** label: **Insulated** transmitter (**ATT1-I**)

**Technical characteristics (@20 °C)**

|   |  |
|---|--|
| <b>Insulation voltage:</b>                    | 1 kV AC for 1 minute<br>(ATT1-I model only)            |
| <b>RTD excitation current:</b>                | < 200 mA   |
| <b>RTD maximum wire resistance:</b>           | 20 Ω per wire  |
| <b>Cold junction accuracy:</b>                | ±0.5°C   |
| <b>Cold junction drift:</b>                   | 0.05°C/°C  |
| <b>Voltage operating range:</b>               | 7... 30 Vdc  |
| <b>Current output:</b>                        | 4... 20 mA (2 wires)                                   |
| <b>Output resolution:</b>                     | 2 mA   |
| <b>Over-range output value:</b>               | +5°C   |
| <b>Under-range output value:</b>              | -5°C   |
| <b>Failure output value:</b>                  | Selectable between 21 mA, 3.8 mA<br>or any other value |
| <b>Temperature drift:</b>                     | < 150 ppm  |
| <b>Sampling time:</b>                         | 300 ms   |
| <b>Response time (10% input, 90% output):</b> |  |
| - With no filters:                            | 400 ms   |
| - With medium filter:                         | 2 s  |
| - With strong filter:                         | 6 s  |
| <b>Protection:</b>                            | IP 20  |
| <b>Compliance:</b>                            | CE, EN 61326-1   |
| <b>Operating temperature:</b>                 | -40... +85°C   |
| <b>Humidity:</b>                              | 30... 90% @ 40°C<br>(with no condensation)             |
| <b>Storage temperature:</b>                   | 40... +105°C   |
| <b>Connections:</b>                           | Screw terminals  |
| <b>Enclosure:</b>                             | PA66   |
| <b>Dimensions:</b>                            | Ø45 mm, thickness 23 mm.                               |

Product codes:

**Y1.ATT1**

**Y1.ATT1-I**