



### FEATURES

- The **Resistance or Temperature Transducers** are instruments conceived to receive a signal from a PT-100 sensor or measure resistances and retransmit a proportional value by means of an analog output.
- During the ordering process, the user can define the number of wires (2,3 or 4), so that the losses related to distance can be compensated connecting additional wires.
- Available in two different versions: **W04151**, in ABS plastic enclosure and **W04152**, in a high-resistance extruded aluminum enclosure.

### APPLICATIONS

- Conversion of measured DC values into analog DC signals, using automation standards accepted by PLC's, digital indicators, controllers and other related instruments
- Signal Isolation
- Protection of general electrical machinery

### PRODUCT INFO

#### MULTIPLE END APPLICATIONS

- Several options for inputs and outputs, suited for the most varied applications in automation systems.

#### INSTALLATION AND ENCLOSURE

- Panel's Background, Fastening method:
  - Din rail (W04151) or Side Screws (W04152)
- Connection – Lug terminals
- Robust enclosure (IP -40)

#### ISOLATION

- 1,5kV between inputs and outputs (60Hz, 1 minute)

#### ANALOG OUTPUT

- Response time: < 300ms
- Output Ripple: < 0.5%
- Output values and maximum (current output) or minimum (voltage output) admittable resistances:

|                       |                                 |
|-----------------------|---------------------------------|
| 4...20mAdc (0...750Ω) | 0...10mAdc (0...1kΩ)            |
| 0...20mAdc (0...750Ω) | 0...1Vdc (1kΩ - minimum value)  |
| 0...1mAdc (0...10kΩ)  | 0...5Vdc (1kΩ - minimum value)  |
| 0...5 mAdc (0...2kΩ)  | 0...10Vdc (2kΩ - minimum value) |

#### MEASUREMENTS AND INPUT INFO

|                                   |   |
|-----------------------------------|---|
| <i>Number of Wires</i>            | 2 wires (standard), 3 or 4 wires (optional, for loss compensation)  |
| <i>Signal Inputs (full scale)</i> | PT-100 (up to 400°C - 752°F) /Resistance (up to 10kΩ - as ordered)  |
| <i>Working Range</i>              | 10 to 100% of the nominal value   |
| <i>Connection</i>                 | Lug Terminal (IP-00)  |
| <i>Maximum Cable to be Used</i>   | Measurement inputs and power supply: 2.5mm <sup>2</sup><br>Output: depends on the distance and impedance of the instruments that will be connected to it, check admittable resistances info for each case |

#### ACCURACY at 25°C (77 °F), referred to the full scale

|                             |         |
|-----------------------------|---------|
| <i>Internal Consumption</i> | <3.5 VA |
| <i>Voltage</i>              | 0.20%   |

#### POWER SUPPLY

|                |  |
|----------------|--|
| <i>Voltage</i> | 12Vdc (90 to 120% of nominal value)<br>24, 48 or 125Vdc (80 to 120% of nominal value)<br>110 or 220Vac (85 to 115% of nominal value) |
|----------------|--|

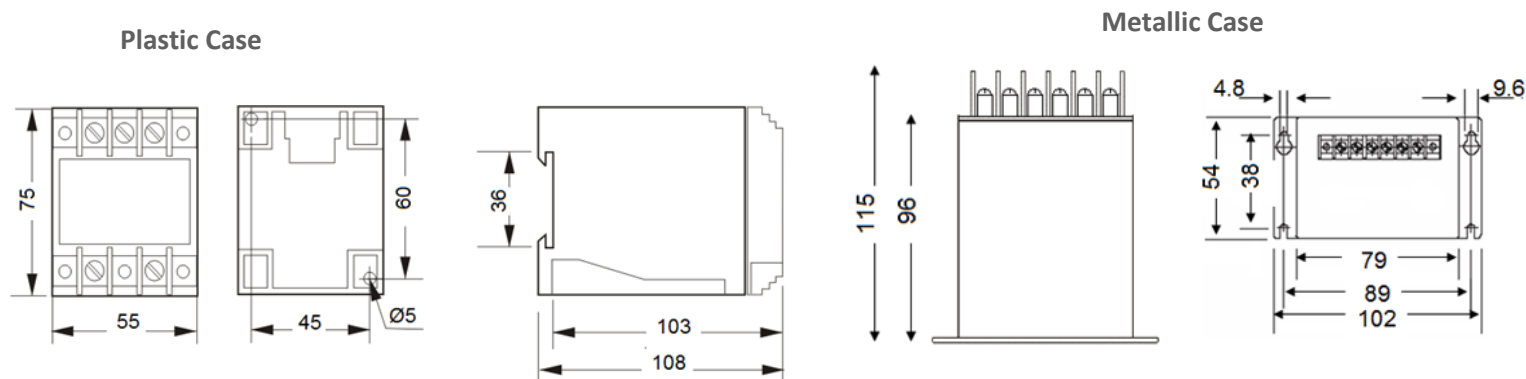
#### CASE

|                             |  |
|-----------------------------|--|
| <i>Internal Consumption</i> | < 3.5VA  |
| <i>Material</i>             | W04151: ABS plastic<br>W04152: High-resistance extruded aluminum enclosure |
| <i>Mass</i>                 | 0.5kg  |
| <i>Protection Degree</i>    | IP-40  |

#### ENVIRONMENTAL CONDITIONS

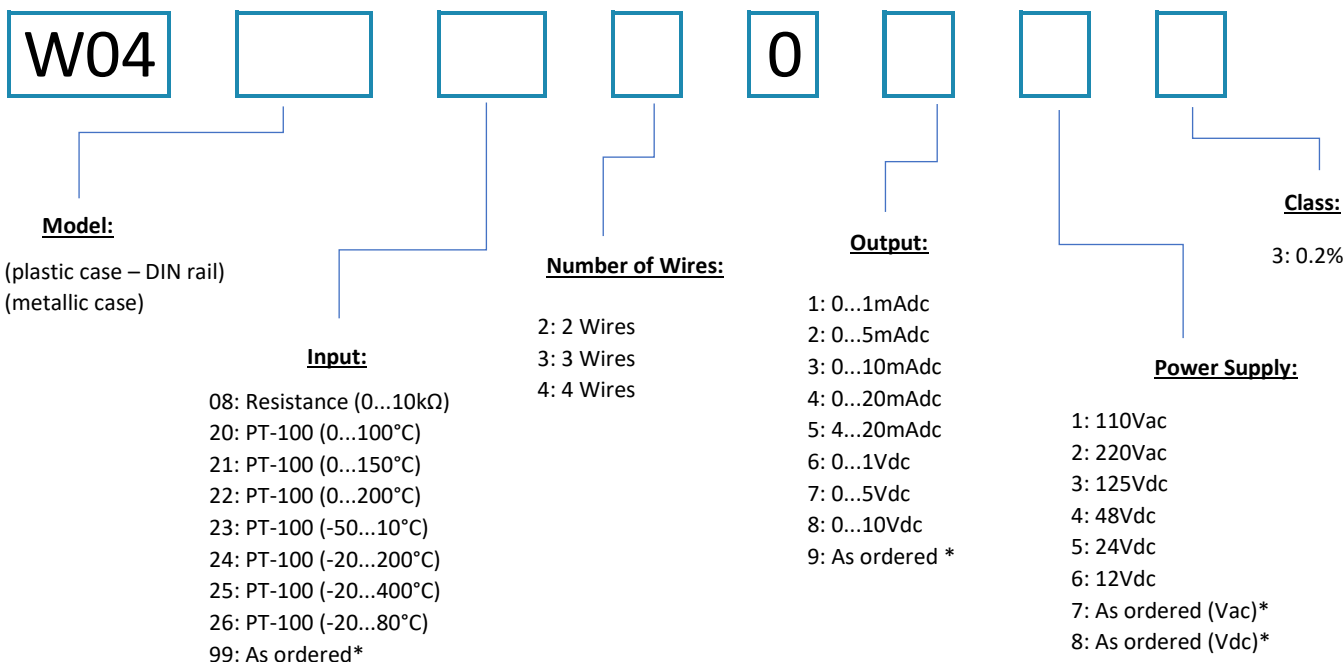
|                                      |  |
|--------------------------------------|--|
| <i>Operation/Storage Temperature</i> | -10 to 60°C (14 to 140 °F)   -25 to 60°C (-31.667 to 140 °F) |
| <i>Relative Air Humidity</i>         | Maximum of 95% (without-condensation)                        |
| <i>Temperature Coefficient</i>       | 0.01%/°C   |

### DIMENSIONS



Dimensions in millimeters

### How to Specify:



#### NOTE:

\* Please consult technical support to check availability for a particular value/signal.

#### Standard Model: (Example)

**W 04 152 24 3 0 5 2 3**

Transducer {RP metallic case} {PT-100 Input: -20 ... 200°C} {3 Wires}{Output: 4...20mAdc}{Power Supply: 220Vac} {Class: 0.2%}

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For correct utilization of the product, the User Manual must be consulted before its installation or operation.  
Some items presented here may be optional, being necessary the correct product specification by their code.

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