



# **Datasheet**

# RS PRO Digital Panel Meter Display for Pt / Ni Sensors and Resistors

**Stock number: 188-3478** 



# THERMOMETER FOR PT/NI SENSORS

4-digit projection

■ Input: Pt 100/500/1 000 Ni 1 000/10 000

0...3900 Ω

Digital filters

Size of DIN 51,5 x 29,5 mm

Power supply 24 V AC/DC

188-3478 is a 4-digit thermometer for resistive Pt/Ni sensors. The instrument is based on a microcontroller and an A/D converter, which ensures good accuracy and easy operation of the instrument.

The 22 mm cross-section of the circular instrument body allows its convenient mounting into mosaic and signaling panels.

#### **OPERATION**

The instrument is set and controlled by two buttons located on its the body.

Standard equipment is the OM Link USB interface, which, when using the control program, allows you to edit and archive all device settings and to update firmware.

All settings are stored in FLASH memory (they hold even after the power is turned off).

#### STANDARD FUNCTIONS

#### PROGRAMMABLE PROJECTION

Selection: of input type and measuring range Projection: -999...9999

## **COMPENSATION**

Of conduct: automatic (3-wire) or manual in menu (2-wire) Of conduct in probe: internal connection (conduct resistance in measuring head)

### **TECHNICAL DATA**

#### **INPUT**

Number of inputs		1
Pt	Type	optional in configuration menu EU > 100/1 000 $\Omega$ , 3 850 ppm -50°450°C US > 100 $\Omega$ , 3 920 ppm/°C -50°450°C RU > 100 $\Omega$ , 3 910 ppm/°C -200°450°C
	Conect.	2 or 3-wire
Ni	Туре	optional in configuration menu Ni 1 000, 5 000 ppm/°C -50°250°C Ni 1 000, 6 180 ppm/°C -200°250°C
	Conect.	2 or 3-wire
ОНМ	Туре	optional in configuration menu 0390 $\Omega$ 03 900 $\Omega$
	Conect.	2 or 3-wire

#### **PROJECTION**

Display: -999...9999, single color 7-segm. LED Digit height: 14 mm

Display color: red

Decimal point: adjustable - in menu

Brightness: adjustable

#### **INSTRUMENT ACCURACY**

TK: 50 ppm/°C

Accuracy: ±0,15% of range + 1 digit (for projection -999...1999)

Rate: 0,5...100 measur./s

Overload capacity: 2x; 10x (t < 30 ms)

Resolution: 0,1°C

Line compensation: max. 30  $\Omega$  Watch-dog: reset after 500 ms Calibration: at 25°C and 40 % r.h.

#### **POWER SUPPLY**

Range: 24 V DC/AC, ±10 %, PF≥0,4,

I<sub>STP</sub>< 45 A/1,1 ms

Consumption: < 0,2 W/0,2 VA

#### **MECHANIC PROPERTIES**

Material: PA66, incombustible UL 94 V-I Dimensions: 51,5 x 29,5 x 66 mm (w x h x d)

Panel cutout: Ø 22,5 mm

#### **OPERATING CONDITIONS**

Connection: connector terminal blocks,

section < 1,3 mm<sup>2</sup>

Stabilization period: within 5 minutes after

switch-on

Working temperature: -20°...60°C Storage temperature: -20°...85°C Protection: IP65 (front panel only)

El. safety: EN 61010-1, A2

Dielectric strength: 700 VAC per 1 min test

between supply and input

Insulation resistance: for pollution degree II,

measuring cat. II.

power supply > 250 V (PI)

EMC: EN 61326-1

PI - Primary insulation, DI - Double insulation

# CONNECTION







