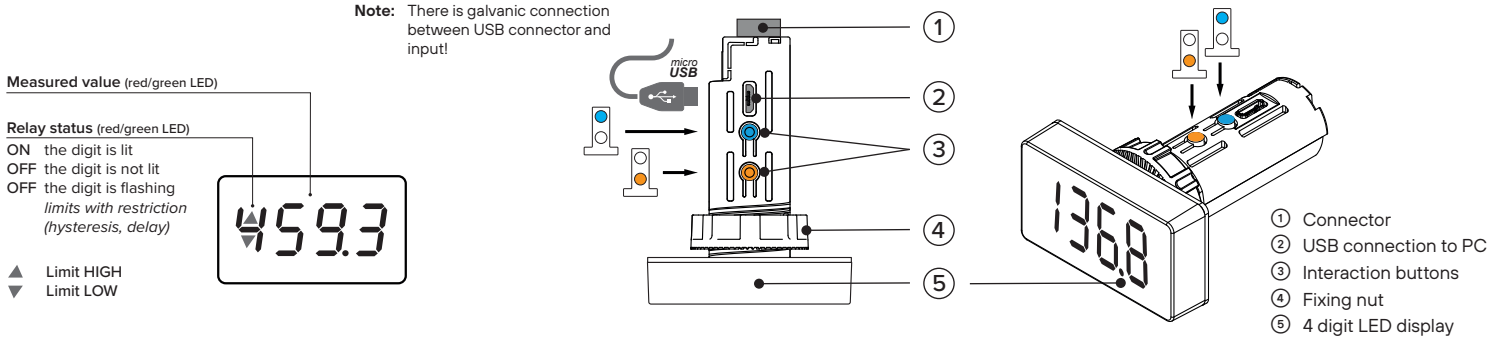


188-3472

Digital Panel Meter

PROCESS MONITOR

- Passive loop display 4...20 mA
- 4-digit programmable projection
- Scaling of measured values
- Power supply from the loop
- Limit outputs
- Password protection to prevent unauthorised changes of settings
- Protection IP65
- Easy mounting into standardised Ø 22,5 mm hole

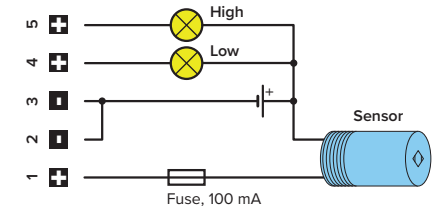


⚠ DANGER ⚠	⚠ WARNING ⚠	⚠ CAUTION
<p>HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH</p> <p>- Disconnect all power before servicing equipment and other supply lines</p> <p>Failure to follow this instruction will result in death or serious injury.</p>	<p>EQUIPMENT OPERATION HAZARD</p> <p>- Do not use this product in safety critical system. - Do not disassemble, repair or modify this product. - Do not operate beyond the recommended operating environment.</p> <p>Failure to follow these instructions can result in death, serious injury, or equipment damage.</p>	<p>EQUIPMENT OPERATION HAZARD</p> <p>- Install 100 mA fuse UL...Class CC ; IEC...gG if unable to determine loop input current is within 4 to 20 mA</p> <p>Failure to follow this instruction can result in injury or equipment damage</p>

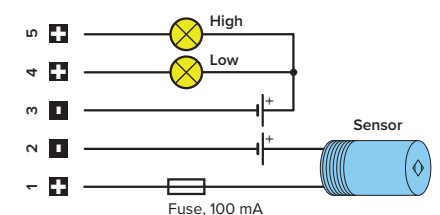
Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by RS Components for any consequences arising out of the use of this material.

2 Product Connection

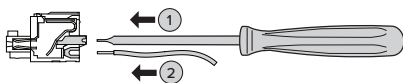
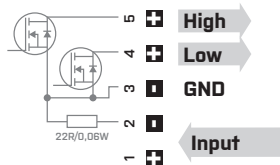
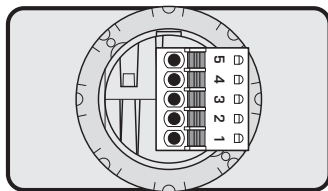
Connection with 1 power supply



Connection with 2 power supplies

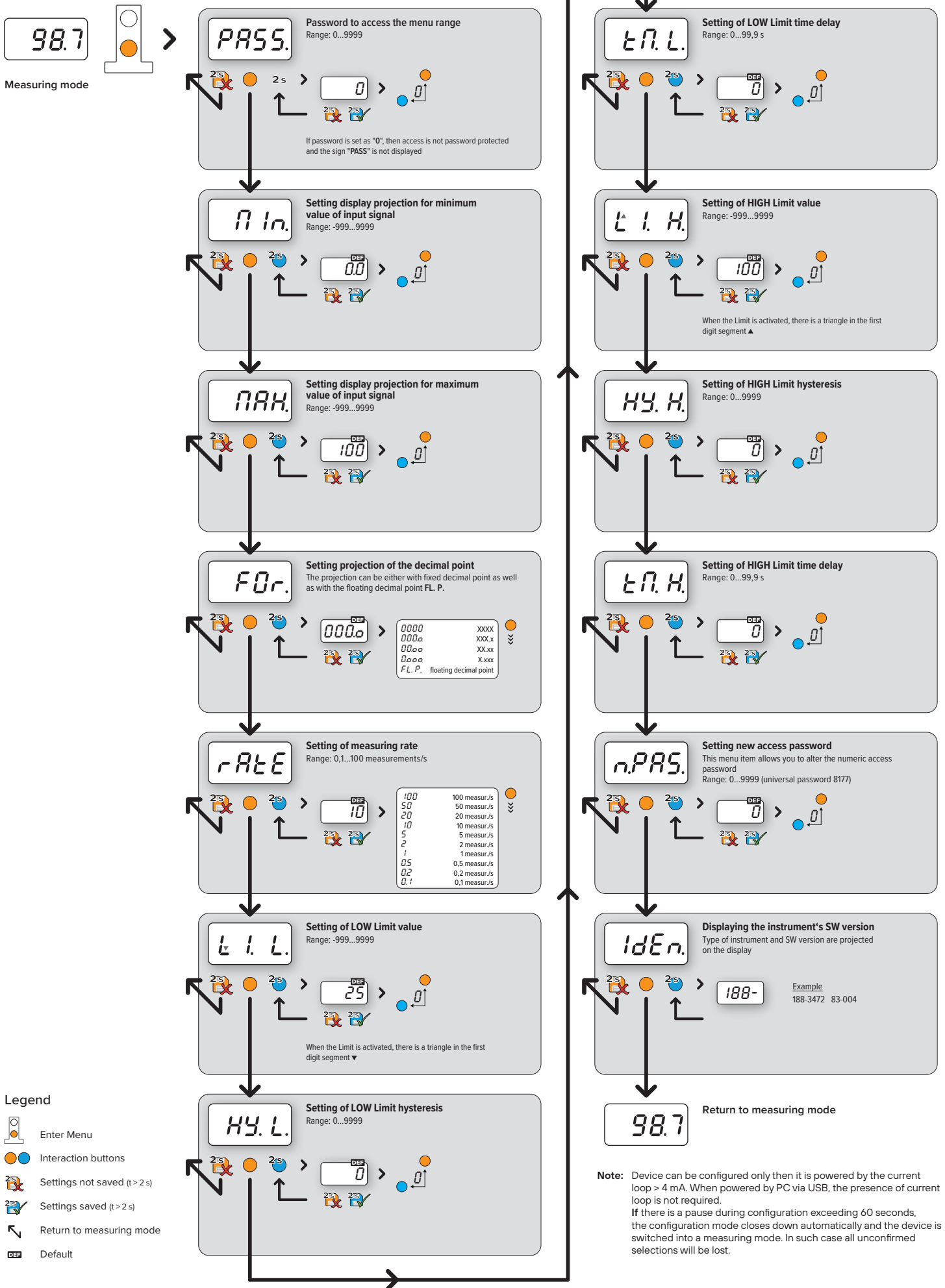


Note: Negative poles of the power supplies are connected inside the basic display via a resistor



①		Ø 2 mm / 0,08 in
②	mm	6...8
	inch	0,24...0,31
	mm ²	0,2...1,3
	AWG	24...16

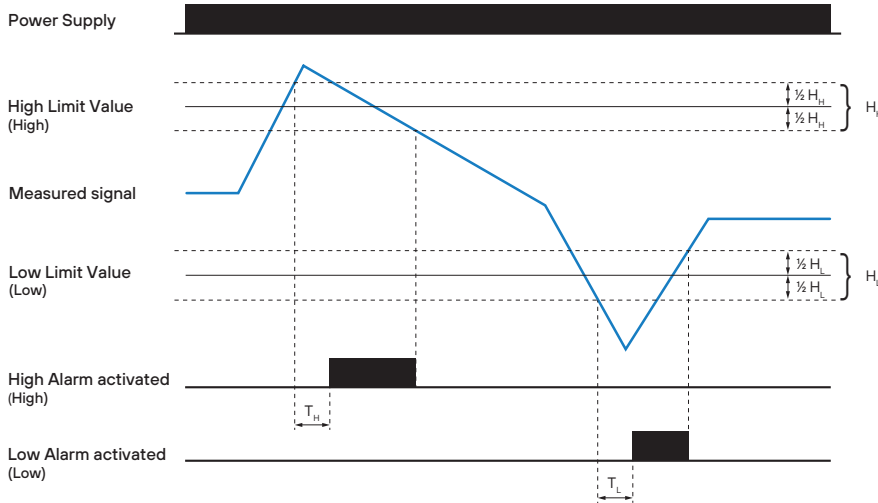
Note: Contactors, high power electric motors, frequency drives and other power devices should not be in a close proximity of the meter. Input signal leads (measured value) should be separated from all power lines and power devices. Even though the meters has been designed and tested according to standards for industrial environment, we strongly advise to adhere to the above presented rules



ERROR	CAUSE	ELIMINATION
$E. d_{-}$	number is too small (large negative) to be displayed	change DP setting, channel constant setting
$E. d_{+}$	number is too high to be displayed	change DP setting, channel constant setting
$E. t_{-}$	number is below the linearization table value; Error table underflow	change input signal value or linearization table
$E. t_{+}$	number is above the linearization table value; Error table overflow	change input signal value or linearization table

5

Limit Function



Legend

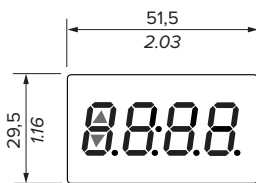
- Indicator not activated
- Indicator activated

- H_H High limit hysteresis (-999...9999)
- H_L Low limit hysteresis (-999...9999)
- T_H High limit time delay (0...99.9 s)
- T_L Low limit time delay (0...99.9 s)

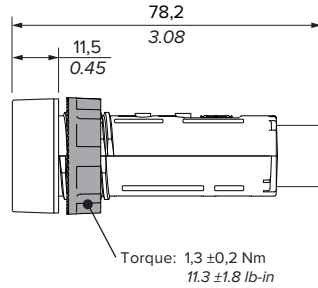
6

Instrument dimensions and installation

Front view

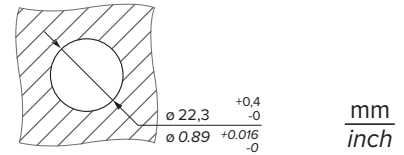


Side view



Panel cut

Panel thickness: 1...6 mm
0.04...0.24 in



7

Technical data

INPUT

Number of inputs	1
Range	4...20 mA < 5.5 V

PROJECTION

Display	9999, 7-segment LED
Digit height	14 mm
Display color	red
Projection	-999...9999
Decimal point	setting - in menu
Brightness	fixed

INSTRUMENT ACCURACY

TC	50 ppm/°C
Accuracy	$\pm 0.15\%$ of the range + 1 digit for projection -99...1999
Rate	0.1...100 measurements/s
Overload capacity	2x
Watch-dog	reset after 500 ms
Calibration	an 25°C and 40 % r.h.

LIMIT SWITCHES

Type	digital, menu adjustable
Limits	-999...9999
Hysteresis	0...9999
Delay	0...99.9 s
Outputs	Power MOSFET, 30 VDC/0.5 A

POWER SUPPLY

Power supply	from current loop 4...20 mA, voltage drop < 5.5 V
--------------	---

MECHANIC PROPERTIES

Material	PA66, incombustible UL 94 V-0
Dimensions	51.5 x 29.5 x 78.2 mm
Panel cutout	$\varnothing 22.5 \text{ mm}$

OPERATING CONDITIONS

Connection	connector terminal blocks, section 0.2...1.3 mm ²
Stabilization period	within 5 minutes after switch-on
Working temp.	-20°...60°C
Storage temp.	-20°...85°C
Protection	IP65 (front panel only)
Construction	safety class I
El. safety	EN 61010-1, A2
EMC	EN 61326-1 (Industrial area)



Measuring instruments of the 188-34xx series conform to the European regulation 2014/30/EU and 2014/35/EU

This product must be installed, connected and used in compliance with prevailing standards and/or installation regulations. As standards, specifications and designs develop from time to time, always ask for confirmation of the information given in this publication.