

SATRON VOA and VOM quick start guide

Installation, electrical connections and two point calibration for the configurations illustrated in this guide. Use the housing and process connection diagrams that match your instrument.



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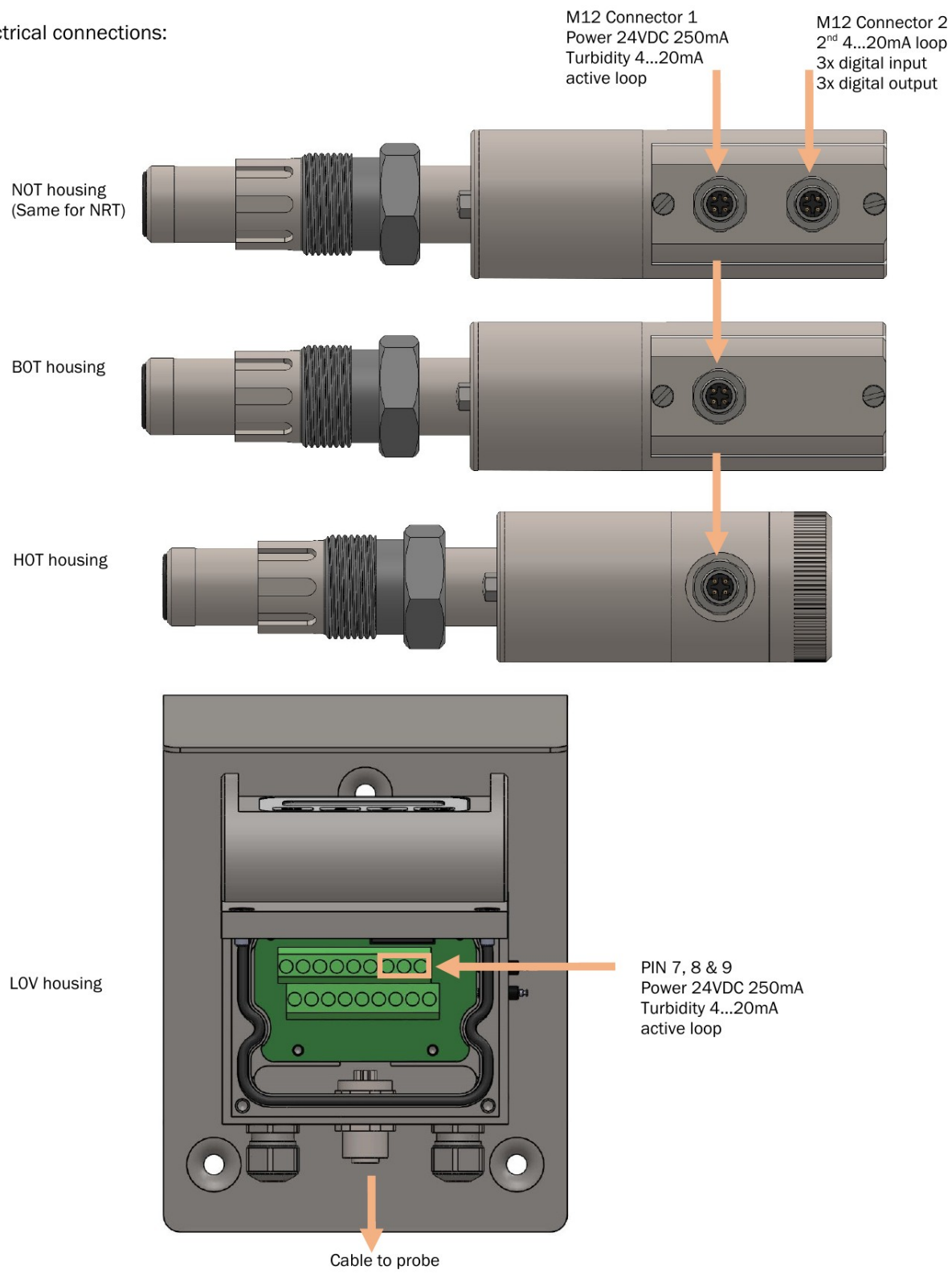
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Electrical connections

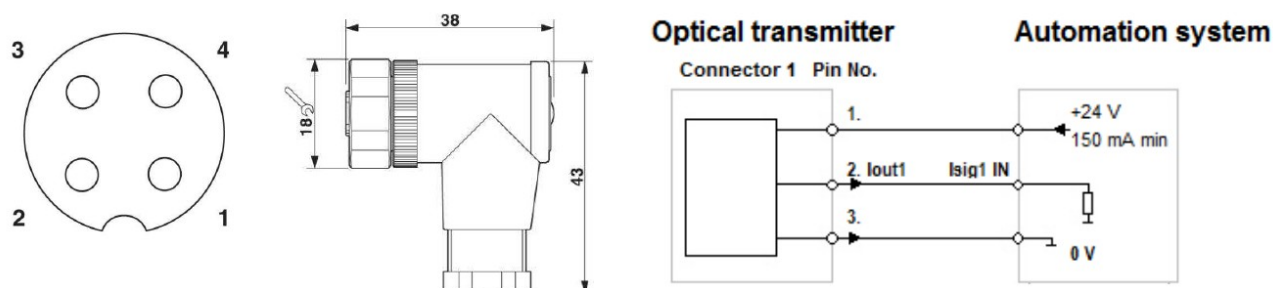
Electrical connections:



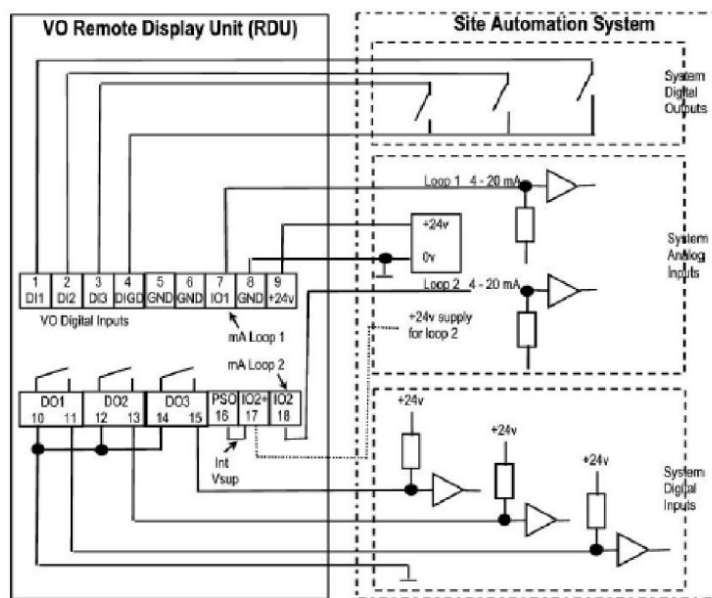
Electrical requirements and wiring

Power supply: 24 V DC, 250 mA. Wire cross section: 0.34 mm².

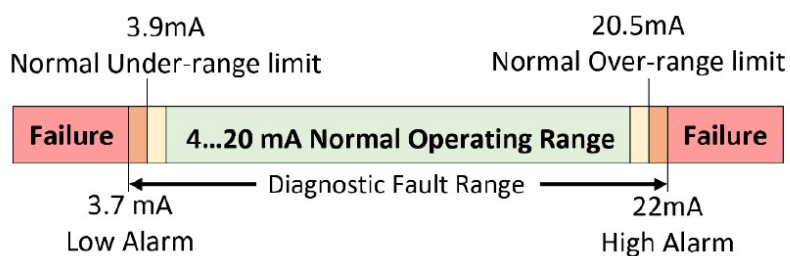
Housing: BOT, HOT, HRT, NOT, NRT:



Housing: LOV:



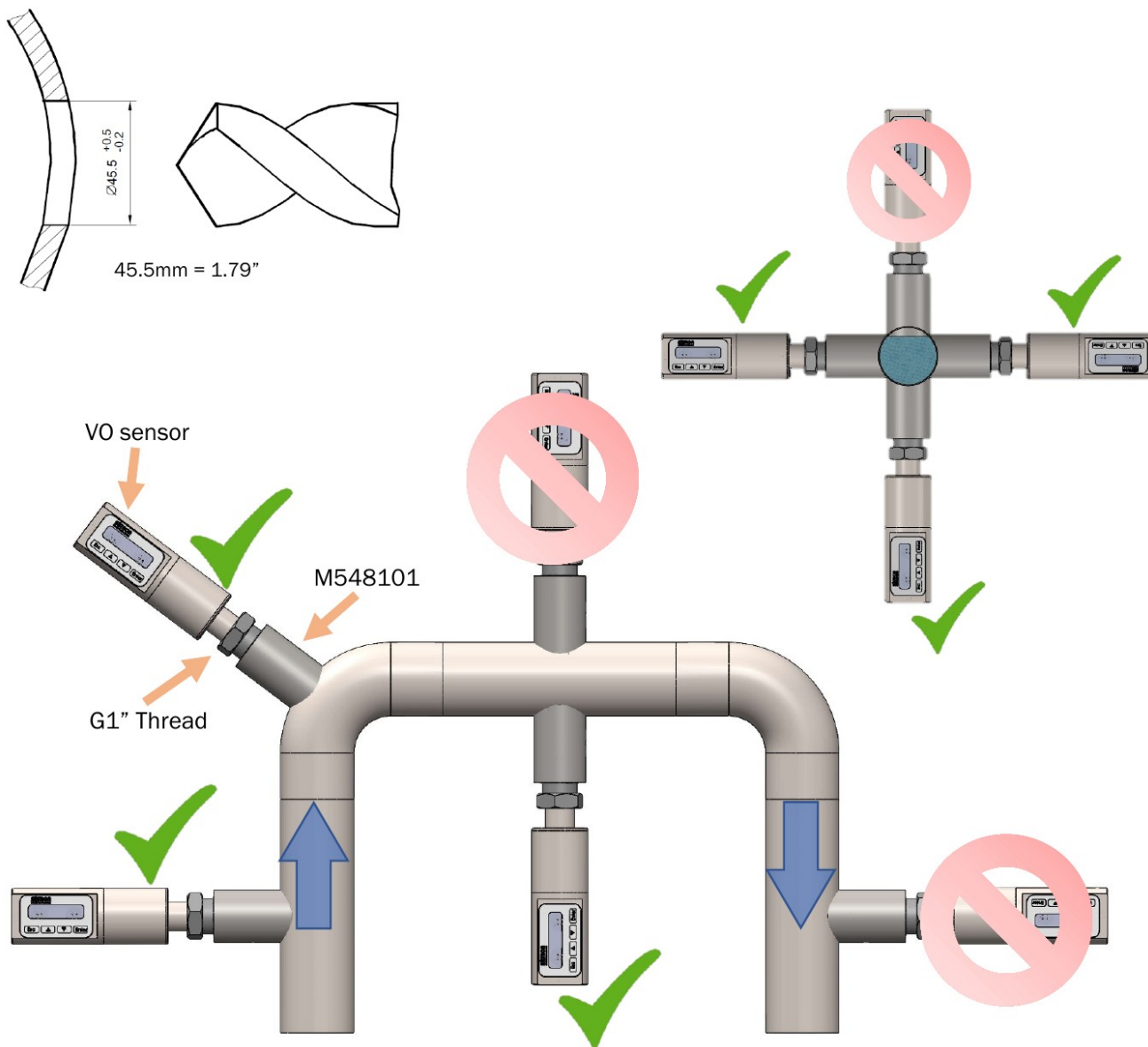
Analog output signal according to NAMUR NE 043:



G1 process connection

For VOA configurations ending in G1. Minimum pipe diameter: 38 mm (1.5 inches). In vertical pipework, use upward flow with the leak detection port facing down. In horizontal pipework, mount on the bottom or side with the leak detection port facing down. Route the cable entry from below.

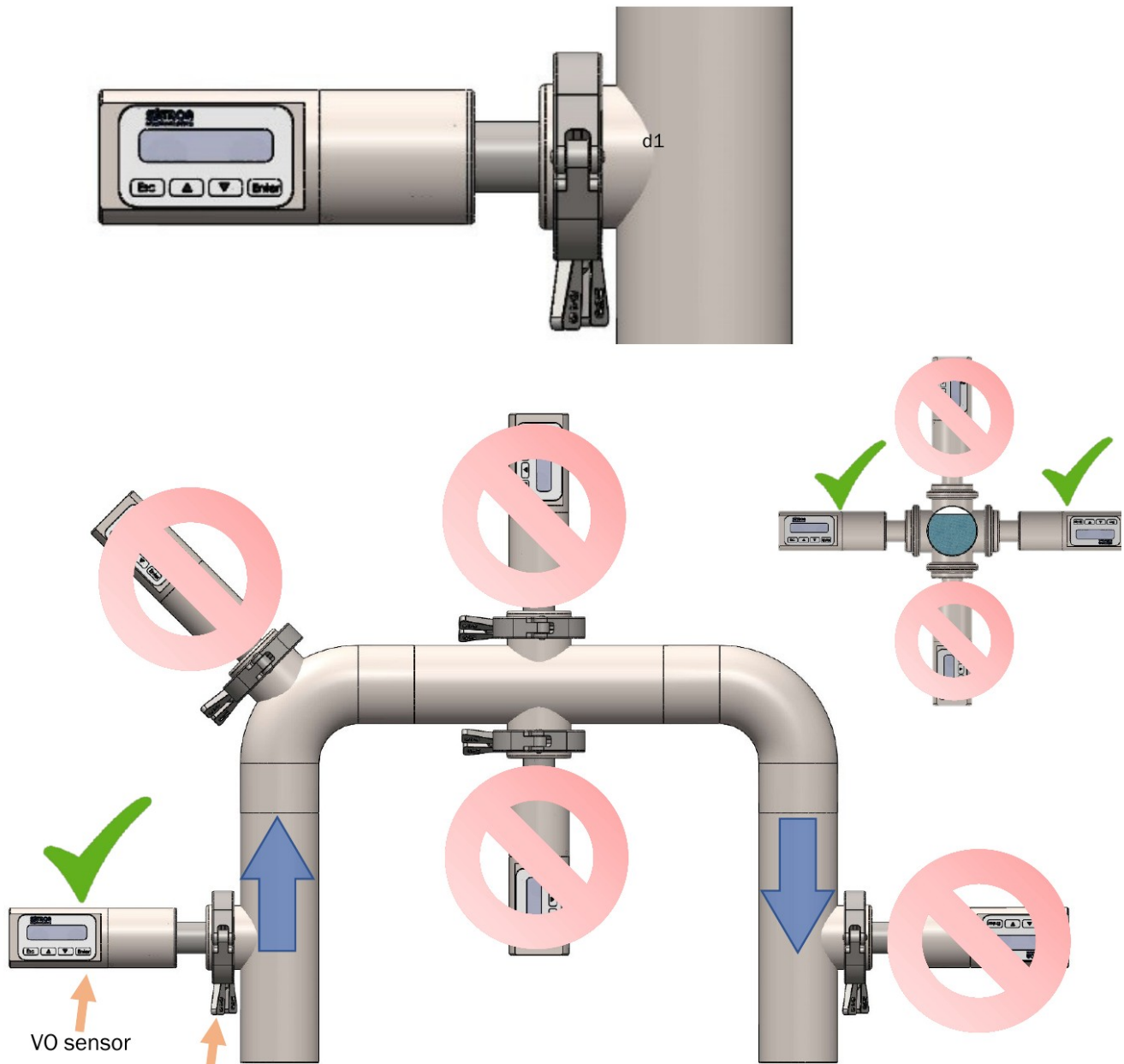
For the 45/G1 inch hygienic welding adapter M548101, follow the datasheet welding instructions. Tightening torque: 60 ± 20 Nm. Replacement O-ring: 17×20 mm, EPDM/FPM/FFPM. Do not apply sealing tape or paste to the threaded connection.



Clamp process connection

For VOA configurations ending in TA, TB or TN. Clamp connections can trap air and affect the measurement. Keep distance d_1 between the sensor lens and the inner pipe wall as small as possible.

Minimum pipe diameter: 38 mm (1.5 inches). In vertical pipework, use upward flow. In horizontal pipework, mount on the side. Route the cable entry from below.



Two point calibration

Follow the displayed sequence below. The confirmation step erases the existing calibration. The starting process value in this example is 30.6%.

