



SDM – QUICK START GUIDE

1

Check and unpack shipment

1. Check if the box is complete and not damaged. Inside the box:
 - a. The Slurry Density Meter (SDM)
 - b. Wafer, Spool piece or Weldolet
 - c. Manual



 youtu.be/S3ClrWe65ik

2

Install the SDM

Follow the three installation steps shown in the picture below.



Note: Tighten the bolts following the manual guidelines, check which bolt torque values are needed. First mount the wafer, spool or weldolet and then the SDM.

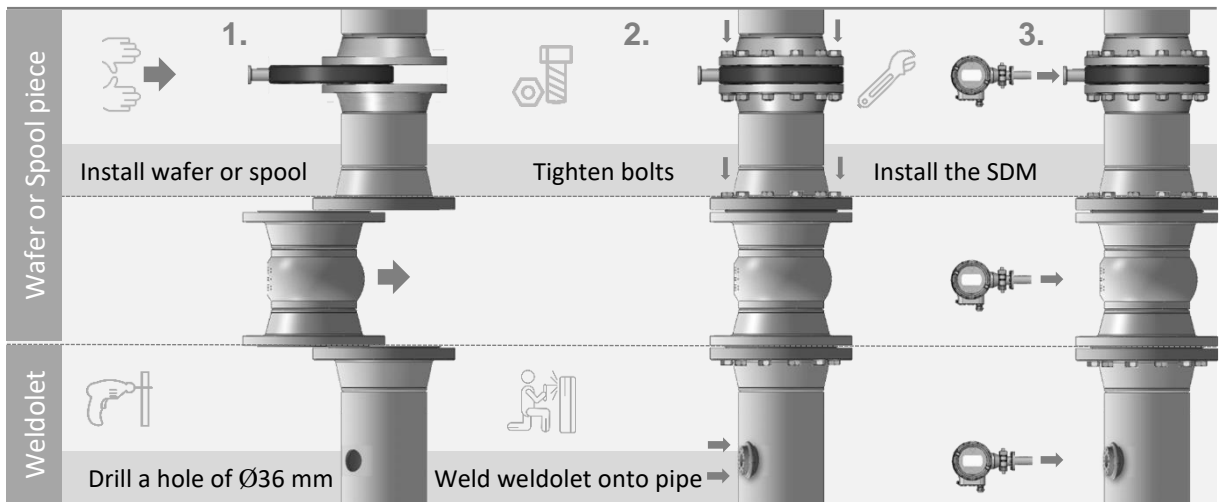



Check: Weldolet and sensor must be installed flush mounted with the surface inside the pipe. The inner pipe diameter must be equal to the inner diameter of the wafer/spool piece. Vertical pipe installation only if the flow goes in upstream direction.



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See chapter 2.1 – 2.6



CAUTION: Horizontal pipe installation must be at 3 or 9 o'clock 

3

Make electrical connection

1. Connect protective earth cable (see image below)
2. Connect 24V and HART/ 4...20 mA



youtu.be/ouDmdL-AJvW

Chapter 2.7



Unscrew the back lid to see the SDM's rear view as shown on the picture above

CAUTION: Do not connect 220V to the SDM

 **4**

Turn on the SDM and wait 4 hours to warm-up the electronics

 **IMPORTANT NOTE**

5

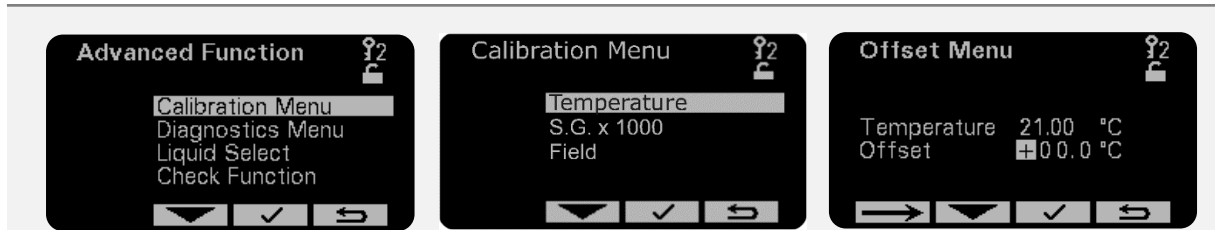
Temperature setting


SDM interface: Go to Main Menu → Advanced Function → Enter access code 1802 → Go to: Calibration menu → Temperature → change temperature with offset function

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Chapter 5.1.1.1



 **CAUTION:** The set temperature must be equal to the average process temperature

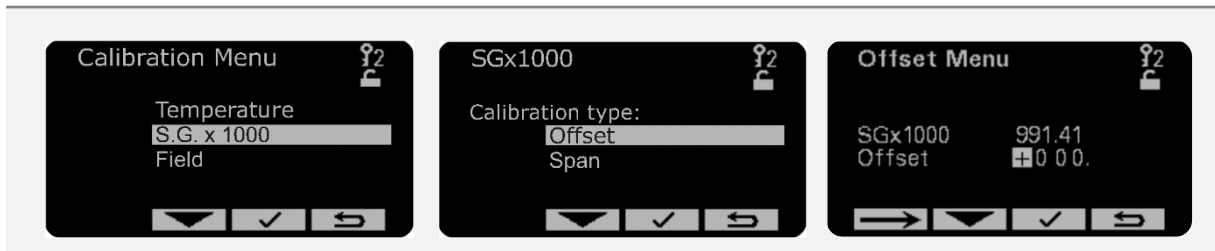
6

Water calibration

1. Pump clear liquid (e.g. water)
2. SDM should read value of clear liquid (e.g. water = 1.000 S.G., sea water ≈ 1.020 S.G.)
3. If the shown value is incorrect. Go to: Calibration menu → S.G. x 1000 → Offset → Adjust the value of S.G. x 1000 by using the offset (e.g. 991.41 to 1.000 S.G.)

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Chapter 5.1.2



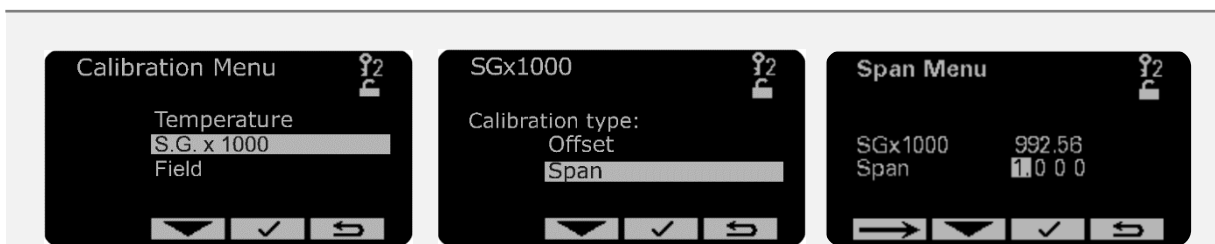
7


Slurry calibration

1. Pump the process slurry
2. Use a reference value to verify if the shown density value of the SDM is right.
3. If the value is incorrect. Go to: Calibration menu → S.G. x 1000 → Span → use span-factor to change the S.G. value until it reaches the reference value. Calibration done!

youtu.be/BU4QyzLD--4
Same chapter



The SDM is now installed, fully calibrated and ready for use! 

Please always check the SDM manual for the complete details and instructions