

Use of a CSA-PP sensor without GMH directly on MCR

If it is not required by certain regulations to use the GMH digital thermometer, you can connect the CSA-PP sensor (p/n 236717) directly to the Pt100 connector of your MCR. To do this, the adapter LEMO/MINIDIN (p/n 233996) and the adapter LEMO 4-pin to 10-Pin (p/n 25680) is required.

When you connect the CSA-PP sensor directly to your MCR, it is not recognized by the Toolmaster functionality. It must be manually configured in RheoCompass 2.x.

1 Using the CSA with MCR xx3 and RheoCompass 2.x

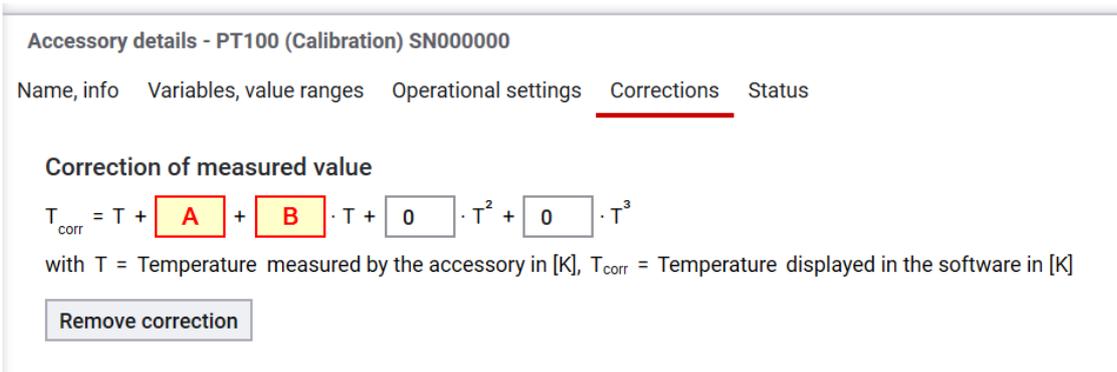
Proceed as follows:

1. Connect the CSA-PP sensor to the Pt100 connector of your MCR.
2. In RheoCompass go to **Setup > Accessories**.
3. In the **Setup** ribbon select **New**.
4. Select the accessory type **Sensor (connected to PT100)** and click **PT100 (Calibration)**.
5. In the **Accessory Details** you can give it a name, e.g. *CSA-PP*.
6. Define a temperature range in the **Variables, Value Range** and make sure to set **Use for calibration** in the **Operational Settings**.

NOTICE

The maximum temperature range for the sensor depends on the sensor used. The sensor might get damaged if this range is exceeded.

7. Got to the **Correction of measured value** in the **Corrections** tab. Enter the values that you can find on a small label attached to the sensor.



Accessory details - PT100 (Calibration) SN000000

Name, info Variables, value ranges Operational settings **Corrections** Status

Correction of measured value

$$T_{\text{corr}} = T + \boxed{A} + \boxed{B} \cdot T + \boxed{0} \cdot T^2 + \boxed{0} \cdot T^3$$

with T = Temperature measured by the accessory in [K], T_{corr} = Temperature displayed in the software in [K]

Remove correction

Set Pt100 input offset and span.

8. Choose your Device in the **Measuring device** ribbon and go to **Configure**.
9. Select the **CSA-PP** in the section **Measuring values**.

Measuring values

Temperature PT100/TD5:

CSA-PP

Pt100 / TD5

Hardware Configuration.

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2 Using the CSA with RheoCompass 1.x

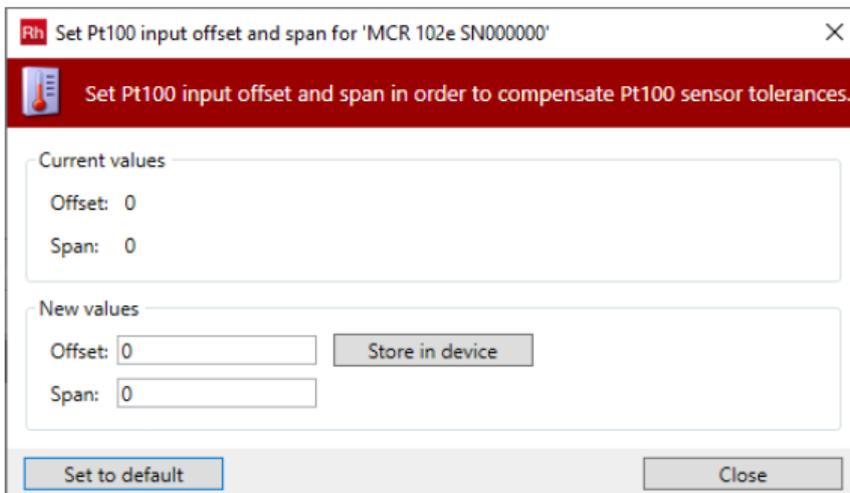
Proceed as follows:

1. Connect the CSA-PP sensor to the Pt100 connector of your MCR.
2. In RheoCompass go to **Setup > Accessories**.
3. In the **Setup** ribbon select **New**.
4. Select the accessory type **Sensor (connected to PT100)** and click **PT100 (Calibration)**.
5. In the **Accessory Details** you can give it a name, e.g. *CSA-PP*.
6. Define a temperature range in the **Variables, Value Range** and make sure to set **Use for calibration** in the **Operational Settings**.

NOTICE

The maximum temperature range for the sensor depends on the sensor used. The sensor might get damaged if this range is exceeded.

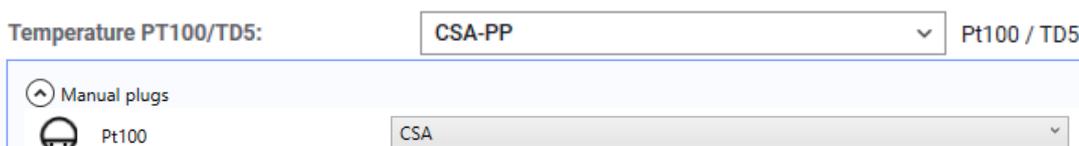
7. Go to the **Measuring Set** ribbon and select **Start service function**.
8. Open the **Set Pt100 input offset and span** dialog box and enter the values that you can find on a small label attached to the sensor.



Set Pt100 input offset and span.

9. Click **Store in device** and then **Close**.
10. Change to **Setup > Configurations** and select your configuration.
11. In the Hardware Configuration tab, select the CSA-PP sensor as accessory and connect it to MCR xx Pt100.

Measuring values



Hardware Configuration.

12. Now the sensor is ready for calibrating the temperature device. Make sure to also select it in the calibration window.

Use of a CSA-PP sensor without GMH directly on MCR

3 Using the CSA with MCR xx2 and RheoCompass 2.x

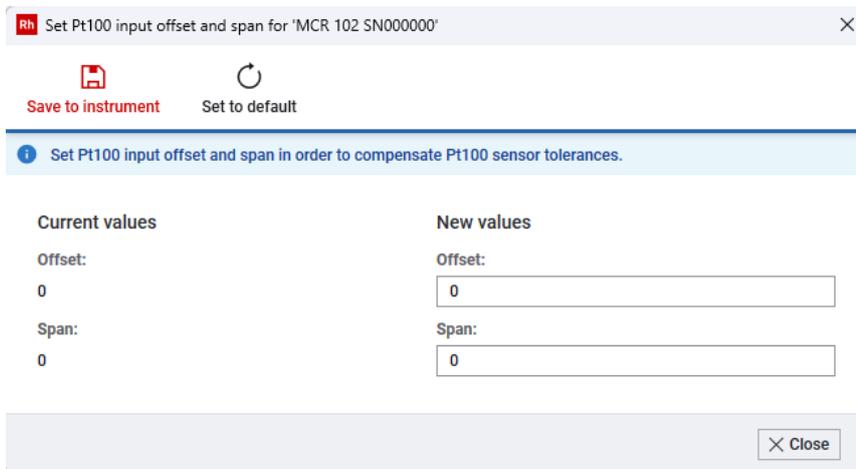
Proceed as follows:

1. Connect the CSA-PP sensor to the Pt100 connector of your MCR.
2. In RheoCompass go to **Setup > Accessories**.
3. In the **Setup** ribbon select **New**.
4. Select the accessory type **Sensor (connected to PT100)** and click **PT100 (Calibration)**.
5. In the **Accessory Details** you can give it a name, e.g. *CSA-PP*.
6. Define a temperature range in the **Variables, Value Range** and make sure to set **Use for calibration** in the **Operational Settings**.

NOTICE

The maximum temperature range for the sensor depends on the sensor used. The sensor might get damaged if this range is exceeded.

7. Go to the **Measuring device** ribbon and select **Start service functions**.
8. Open the **Set Pt100 input offset and span** dialog box and enter the values that you can find on a small label attached to the sensor.



Set Pt100 input offset and span.

9. Click **Store to instrument** and then Close.
10. Choose your Device in the **Measuring device** ribbon and go to **Configure**.
11. Select the **CSA-PP** in the section **Measuring values**.

Measuring values

Temperature PT100/TD5: Pt100 / TD5

Hardware Configuration.

12. Now the sensor is ready for calibrating the temperature device. Make sure to also select it in the calibration window.

NOTE: Do not use both variants (1 and 3) at the same time as this would double the correction!