



CTI-500
Replacement Sensor for
inductive conductivity/
concentration and
temperature transmitters
with switch contacts
Type 202755

B 20.2755.0.1
Calibration Instructions

03.06/00469148

1 Notes



These calibration instructions and the calibration set (resistance decade) that comes with the replacement sensor are provided **exclusively** for the purpose of calibrating the **replacement sensor!**

If a transmitter is supplied together with a sensor, then this combination is factory-calibrated. It is **not** possible to recalibrate such a combination using these calibration instructions and the calibration set.

Please refer to the chapter “Calibration” in the Operating Manual B20.2755.0 (Part No. 00444870) for further information.



All necessary settings are described in these calibration instructions. However, if any difficulties should still arise during calibration, please do not carry out any manipulations on the unit. You could endanger your rights under the instrument warranty! Please contact the nearest subsidiary or the head office in such a case.

Please read these calibration instructions before starting to calibrate.

2 Connecting the replacement sensor

see chapter "Installation" in the Operating Manual B20.2755.0 (Part No. 00444870).

3 Calibration

3.1 Requirements

- The supply voltage for the CTI-500 must be present.
see chapter "Installation" in the Operating Manual B20.2755.0 (Part No. 00444870).
- The sensor must be connected to the transmitter.
- The transmitter is in the measurement mode.



- * Press the  key for at least 3 seconds.
- * Use the  or  key to select ADMIN. LEVEL; confirm the selection with the  key.



- * Using the  or  key, select password 3000; confirm the

selection with the  key.

```
ADMIN. LEVEL
PASSWORD
3000
```

- LEDs K1 and K2 blink.

* Pass the cable of the calibration set through the sensor opening.



The calibration program will ask you to connect the first calibration resistor. The first calibration resistor is an open loop, as shown in the picture.

```
          CALIB
-----
RESISTOR NO.      1

START WITH PGM
```

Press the  key

The transmitter now calibrates all measuring ranging for a “liquid with the conductivity 0 mS/cm”. The procedure lasts about 120 seconds (countdown in the display).



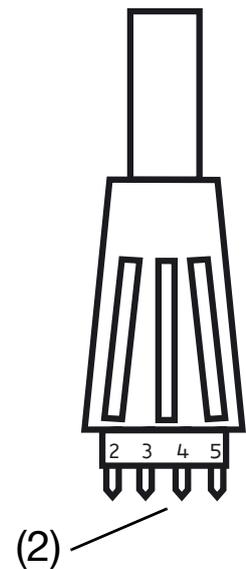
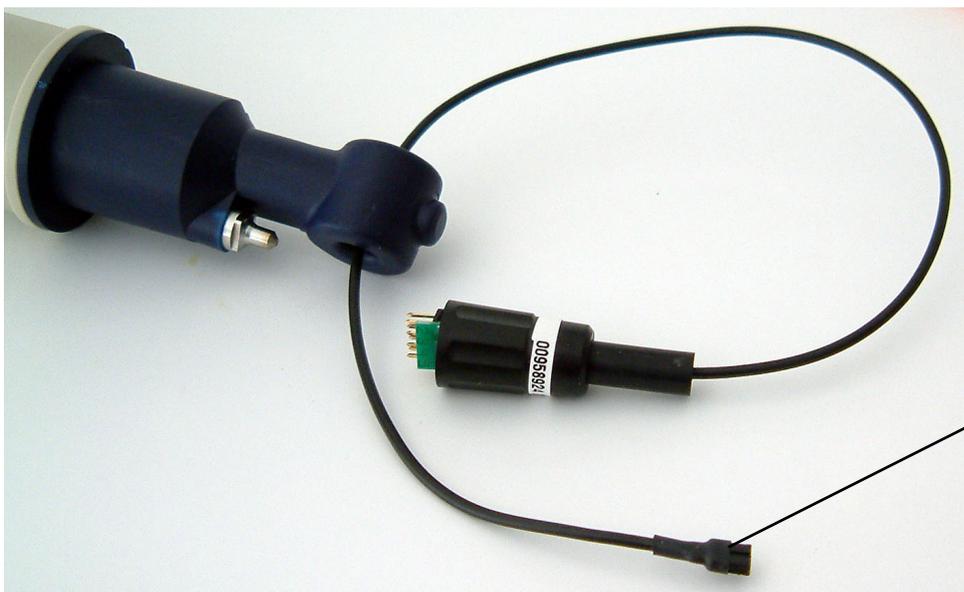
If an error occurs (e.g. if the plug of the calibration set was inserted in the wrong socket), a message will be displayed.



The calibration must then be ended by pressing the  key.

The old calibration data (prior to the calibration attempt) are retained and will continue to be used.

The calibration program will ask you to connect the next calibration resistor (2, 3, 4 and 5).



- * Push the plug (1) onto the pins (2) of the calibration set, which are marked correspondingly.
- * Start the next calibration step by pressing . Once more, there is a countdown in the display (about 60 seconds).

Calibration is finished after step 5.



Press the  key for about 5 seconds - the calibration values are accepted and the procedure is concluded.



The calibration values can be rejected by pressing the  key. In this case, the transmitter will operate with the old values.

