

Universal 3D-Sensor Digital

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User's Guide

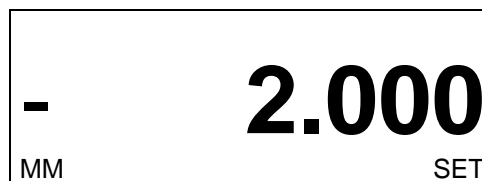
The digital 3D-Sensor is a further development of the time proven mechanical 3D-Sensor. The digital display has large numbers that measure in increments of 0.001 mm. It can be easily read from a long distance (i. e. when mounted on a large machining center). The digital display is splash-proof and dust-proof and can be stored in the tool magazine of the machine.

Operation

The basic functions of the Universal 3D-Sensor are explained in the User's Guide for the mechanical version. In the following, only the additional functions of the digital display are described

1 Turning On and Checking Functionality

Turn the unit on by pressing the "ON/OFF" button. The display shows the following:



It must show the preset value -2.000 mm to within ± 0.003 mm. If necessary, press the probe tip several times into the gauge housing (Z-Direction) and let it spring back. By quickly pressing the "ON/OFF" button the display is set to exactly -2.000.

Attention!

If the preset value is still out of tolerance, the unit may be damaged. In this case, the value -2.000 can be restored on the display by quickly pressing the "ON/OFF" button. Then the measuring accuracy must be tested (by measuring an exactly known length).

2 Switching from Metric to Inches

Switching back and forth between Metric and Inches is done by quickly pressing the "MODE" button. "INCH" or "MM" will be displayed in the lower left corner of the display.

3 Turning Off

Turn the unit off by holding down the "ON/"OFF" button until the unit switches off.

Attention!

The unit must be at rest (nothing touching the probe tip) when being turned off. Otherwise an incorrect preset value will be displayed when the unit is turned back on.

This unit will not turn off automatically.

4 Changing the Battery

The digital display is powered by a 3 V lithium battery (type CR 2032). The approximate service life is about 3000 hours. The display will show the letter "B" when the battery needs to be replaced.

- Screw off the battery case (Hex socket #1.3) and remove the old battery.
- Insert the new battery with the flat side down.
- Replace the battery case taking care not to damage the O-ring.
- Enter the preset value (see page 2)
- Recycle the old battery in order to save the environment

5 Entering the Preset Value

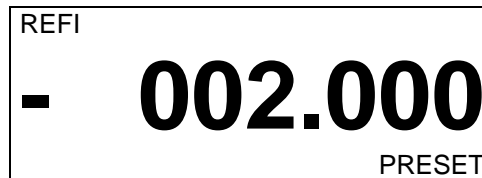
When the preset value "-2.000 mm" is lost (i. e. after replacing the battery) it must be entered again. The display first must be in the metric measuring mode (see page 1).

To enter the preset mode, press and hold the "MODE" button until the display shows the following:



In this mode, each number can be changed. The " _ " indicates which number is being changed at the moment. It can be moved from one place to another by pressing the "MODE" button. The sign or number can be changed by pressing the "SET" button.

The following value must be entered:



Once this value is entered, press and hold the "MODE" button until the display returns to the measuring mode. The display should look the same as it does after turning on.

6 Resetting the Digital Display

When the value indicated on the display is incorrect, the unit must be reset to the initial position:

- Remove and replace the battery (see page 1).
- Enter the preset value (see above).