



Product documentation

Large User Interface (LUI)



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1 Field of application/purpose

Large display (LUI) for retrofitting the NSL-F and ILM-4 sensors (**produced after week 33/2016**). Devices with an earlier production date require a software update.

Sensors delivered without a display can be retrofitted. It is also possible to replace the small display (SUI) or an existing large display.

2 System requirements

- Potentiometric level switch NSL-F or inductive conductivity sensor ILM-4 **produced after week 33/2016**.
- If exchanging the small display for a large display, the puck puller (Part-No. 2970.0090) is additionally required.

The following notes must be followed in particular:

1. De-energize the sensor before performing modifications or maintenance work.
2. All persons setting up, operating, maintaining or servicing the sensor must be properly qualified.
3. This operating manual must be adhered to. The operator must ensure that personnel has read and understood the operating manual in its entirety.
4. All work must be performed carefully and may only be performed by personnel that has been trained and authorized to do so. The applicable local regulations regarding opening and repairing the devices must be complied with.
5. We recommend keeping the operating manual in an easily accessible location close to the measuring device.
6. The work area of the operator must be large enough to minimize the risk of injury.
7. The technical data in the operating manual and on the type label must be noted.

Any damage that can be attributed to improper execution of work on the device is not covered by the warranty.



The display is a sensitive electronic component. The inputs and outputs are protected against electronic discharge during normal handling. However, to be safe, it is recommended to take the usual precautionary measures for proper handling of MOS devices.

3 Installation of the "Large User Interface" (LUI)

1. Remove the plastic cover (continue with step 4), or remove the puck with the mounted small display (continue with step 2)
2. Remove the small display
3. Install the puck in the sensor head
4. Mount the large display

Hot-plug function: The large display can be installed while the sensor is energized, but this requires the usual precautionary measures when working with electronic components.

If the display is being installed while energized, it is necessary to press both buttons simultaneously for >10 s after the display is installed to activate the display.

3.1 Retrofitting the display if a display was not yet installed



Remove the plastic cover: To do so, bend the tabs slightly inwards with a screwdriver to be able to remove the cover easily.

After removing the plastic cover, the large display can be inserted in the head of the sensor. The tabs (Fig. 2) must be inserted in the appropriate openings on the puck (Fig. 1). Then the display can be easily pressed onto the puck. No wiring is required.

Note: After the Large User Interface is mounted, the sensor can only be operated on this display since

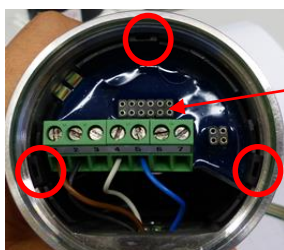


Fig. 1



Fig. 2

the display conceals the connector for the MPI-200 adapter. If operating the sensor using the programming software is preferred, the display must be removed. Then the connector of the programming adapter can be plugged in.

Attention: The connector of the programming adapter (Fig. 3) must be connected in the correct direction → the green spacer must face the cable exit (M12 connector or PG).



Fig. 3

3.2 Retrofitting the display if a small display (SUI) was already installed

First the puck with the mounted display needs to be removed using the puck puller tool (Fig. 1). To do so, detach the wires from the cable terminal. Then insert the five arms of the puck puller in the plastic tabs of the puck (Fig. 2).



Fig. 1

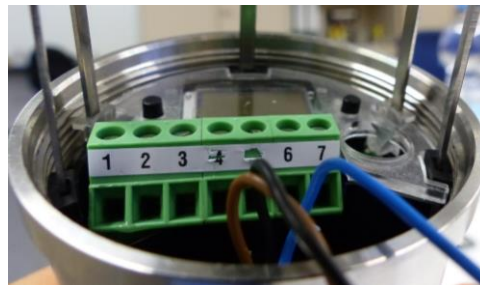


Fig. 2

Push the puck puller all the way into the sensor head and push the disk as far as possible toward the sensor head so that the arms of the puck puller firmly grasp the puck.

Pull the puck with the display out of the sensor housing and pull the small display off of the puck.



Now the puck without the display can be properly positioned and installed back in the sensor head and the wiring can be reconnected to the cable terminal. Then the large display can be mounted → see "Retrofitting the display if a display was not yet installed".

3.3 Operating the large display

The large display (LUI) is operated in the same way as the small display (SUI). It is operated using two operating buttons below the display:



After the sensor is started, the screen saver appears in which the process values of the sensor are displayed one after the other. To reach the start page from here, press one of the two buttons briefly. Further information on operating the display can be found in the quick start manual and in the operating manual for the modular sensors (ILM-4, NSL-F...).

4 Dimensions/technical data

