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instruments

Front view with an example screenshot

The display in its standard housing

Datasheet

OMC-048-Display

The OMC-048-Display is an add-on for the OMC-048 data logger. This full-colour display allows you to view the real time data captured by the logger. The data on the display is updated at the same moment the logger receives the data from the sensors, without noticeable delay.

The display can be connected directly to one of the 4 serial ports of the logger. It is also powered from the logger. Hence, no additional power supply or other components are needed.

The OMC-048 data logger can be configured to pass the desired selection of parameters from all connected sensors to the display. You decide which parameters you want to see, and where on the display they should appear.

Features

- Full-color display with back light
- Touch-screen (used to switch on the back light)
- Resolution: 640 x 480 (h x v)
- Screen dimensions: 12 x 9 cm
- White or black background
- Up to 32 parameters on a single page
- Temperature range: -20°C to +70°C
- Power is supplied from the OMC-048 data logger
- Supply voltage: 9V-18V DC
- Supply current at 12V: 150/300 mA backlight off/on
- Dimensions of the standard housing: 20 x 15 x 7.5 cm
- IP60 rating
- Various housing options
- Customisation possible

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Housing

The standard housing for the display is in a plastic box with dimensions 20 x 15 x 7.5 cm. A single cable connects the display to the logger. Alternatively, the display can be mounted in the same housing as the OMC-048 logger.

OMC-048 configuration

The logger needs to be configured for sending the right data to the display. This is done by adding a few lines to the 'config.txt' file, and by creating a table specifying which parameters needs to be shown in which cell of the display. The formatting, like the number of decimals and the date and time format, can also be specified in this table. The display will use 1 of the 4 serial ports of the OMC-048.

OMC-048-Display configuration

The display will be configured by Observator, based on the specifications of the user. The user can specify:

- black or white background;
- number of cells horizontal and vertical;
- time-out of the backlight.

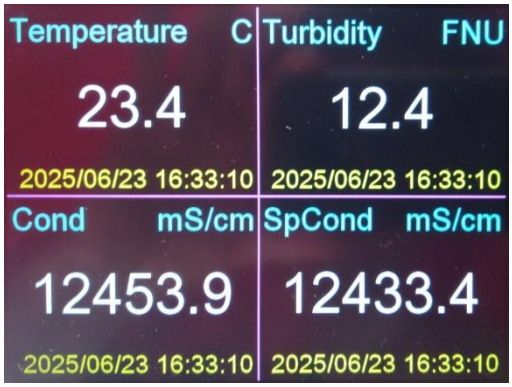
See the pictures on the right for some examples. Note that up to 32 parameters can be displayed simultaneously. The backlight automatically switches off after a defined timeout period. By touching the screen, it will switch on again. Additional configuration (customisation) is possible at additional cost.

Power

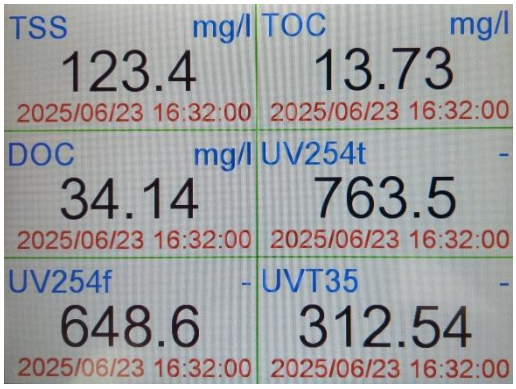
The display can be powered from one of the 12V power output ports of the logger, or directly from the power source of the logger (via a relay, if desired). For battery-powered applications, a switch can by used to switch-on the display only when needed.

Related products

- OMC-048: the display can only be used together with the OMC-048 data logger.
- OMC-044: this logger is available in a version with an integrated display.

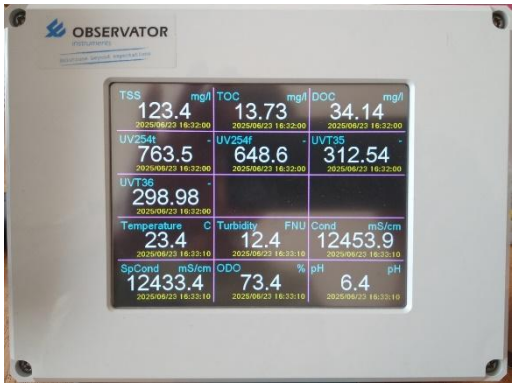


Example screenshot 2 x 2, black background



Example screenshot 2 x 3, white background

Example screenshot 4 x 8, white background



Front view of the standard housing