

Vaisala Fixed Display QMD202



Features/Benefits

- LCD display with backlighting
- Stand-alone design allows installations up to 1000 meters from the data logger
- Measurement values are easily viewed
- Freely configurable by the user by using the MAWS Lizard Setup software
- Easily accessible keypad with user-friendly menu
- Data and system parameters can be entered via the keypad
- Communication via SPI, RS-232, or RS-485 line
- DIN rail mounting

Local User Interface for MAWS

The HydroMet system can be equipped with the QMD202 display and keyboard unit at the installation site where the operator needs to see the measurement values locally and insert observations or reference data into the system.

Vaisala Fixed Display QMD202 provides the local user interface for viewing the values measured and calculated by the MAWS logger. The display allows up to 24 user display pages to be configured by the MAWS Lizard Setup software. In addition, it is possible to create configuration views for adjusting station specific settings and changing the offset and gain values of the sensors connected to the system.

Installation Inside the Enclosure

The QMD202 unit can be mounted on a DIN rail inside the standard MAWS enclosure. Access is only by opening the enclosure door, which can be firmly locked.

Installation Outside the Enclosure

The QMD202 unit can also be installed outside the MAWS enclosure via the RS-232 or the full-duplex RS-485 connection. The RS-485 connection together with a DSI485 module installed into the MAWS data logger allows installations up to 1000 meters from the logger.

LCD Display

The QMD202 display includes a programmable LCD display with backlighting. Several lines of alphanumeric data can be shown. The full display size expressed in characters is 20 x 6 (width x height). The displayed data is sent as reports to the display. The contents, format, and updating intervals of these reports are user-configurable. The update interval can be anything between 1 second and 24 hours.

Technical data

Electrical

Input voltage V_{in}	8 ... 18 VDC
RS232/485	
SPI	3.3 and 5.0 VDC powered from the MAWS data logger
Power consumption	
SPI mode, backlight OFF	20 mW
SPI mode, backlight ON	85 mW
RS485 mode, backlight OFF	96 mW @ 12 V
RS485 mode, backlight ON	252 mW @ 12 V
RS232 mode, backlight OFF	132 mW @ 12 V
RS232 mode, backlight ON	276 mW @ 12 V
Interface	RS-232 / RS-485 / SPI
Connector for RS-232, RS-485 and power supply	8-pin M12
RS-232	1200, 2400, 4800, 9600 bps (default 9600 bps)
RS-485	Full duplex, non-isolated, 1200, 2400, 4800, 9600 bps (default 9600 bps)
SPI	Connected to and powered by the MAWS data logger via a 10-wire flat cable
Communication distances	
RS-232	30 m
RS-485	1000 m
SPI	Inside the MAWS enclosure

Mechanical

Dimensions	127 x 95 x 29 mm
Weight	230 g
Mounting	NS35 DIN rail foot
Enclosure material	Aluminium
LCD Display Size (width x height)	20 x 6 characters

Environmental

Operating temperature	-25 ... +60 °C
Storage temperature	-60 ... +60 °C
CE Compliant	IEC(EN)-61326-1, For use in industrial locations
Vibration	IEC 60068-2-6, level 2 g

