

## Modbus remote display



- Monochrome yellow 2.42" OLED display
- Modbus remote display in 96 mm x 48 mm format
- Up to 8 variables from Modbus slave devices can be displayed
- Up to 4 variables can be displayed on one page
- Modbus master and Modbus slave interface
- 2 relay outputs
- Modbus RTU/ASCII
- Programmable user inputs
- Programming via text menu in 5 languages

<https://www.wachendorff-prozesstechnik.de/en/MA964802>

### Description

The new MA964802 Modbus remote display with its brilliant OLED display is a Modbus display for displaying and changing variables on slave devices connected to an RS485 network. In addition to the very shallow installation depth, the RS485 Modbus interface (based on the Modbus RTU/ASCII protocol), the IP54 front, the removable terminal blocks and the text menu of the programming interface, this display impresses with its monochrome yellow OLED display. This ensures optimum readability and an extremely large reading angle in difficult industrial environments, even in direct sunlight.

### Product details

Display properties:	Monochrome yellow 2.42" OLED display, Display diagonal: 61.46 mm, Active display area: 55 mm x 27.5 mm, 128 x 64 pixels. Service life: 150,000 hours* *Note: The end of the service life is indicated when 50% of the initial brightness is reached. The average service life is stated at room temperature; the service life is reduced when used in higher temperature ranges.
Display:	Up to 4 variables can be displayed per page Variable descriptions up to 16 characters Units of measurement up to 5 characters Selectable number of decimal places Automatic page change can be set
Interfaces:	COM1 Galvanically isolated RS485 interface (Modbus master) COM2 RS485 interface (Modbus slave) Micro USB port for connecting to the PC or inserting the USB memory card
Format:	Bit, 16 bit, 32 bit, 32 bit floating point Numeric or enumeric display (for values 0 to 4)
Protocol:	Modbus RTU/ASCII
Baud rate:	Adjustable from 1200 baud to 115,200 baud
Digital inputs:	A total of 3 digital inputs 2x configurable NPN or PNP and NO or NC 1x PNP

Potentiometer input:	1 input for setting the values of the variables Minimum 1kOhm, supply 24 VDC/AC
Relay output:	2 NO contacts with separate earth, 2 A at 250 VAC, resistive load
Power supply:	24 VAC/DC to 230 VAC/DC +/-15 %, 50/60Hz,
Power consumption:	8 W/VA
Indicators:	Two indicators for alarm statuses
Ambient conditions:	Operating temperature: 0 °C to +40 °C; Relative humidity 35% rH to 95% rH
Programming:	Programming and operation is menu-driven via the front buttons. It is done via text and can be switched between 5 languages. (English, Italian, German, French, Spanish). All settings are protected by a 4-digit password (cannot be changed). Programming is also possible via the Wachendorff EMG APP (via NFC/RFID*) for Android smartphones. For programming via APP, the Modbus remote display can also be in a de-energized state. The Wachendorff EMG app is currently only suitable for Android operating systems. A Wachendorff EMG app that supports iOS operating systems will follow soon.

\*: When interrogated by a reader that supports the NFC-V protocol, the device is to be regarded as a VICC (Vicinity Inductively Coupled Card) in accordance with the ISO/IEC 15693 standard. The Modbus remote display operates at a frequency of 13.56 MHz. The device itself does not emit any radio waves.

Note on programming:	The NFC sensor is located on the right-hand side of the display, behind the buttons. Protective covers for smartphones can interfere with the connection and should therefore be removed from the smartphone for the programming period.
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Keyboard:	4 buttons for programming and setting the setpoints.
Protection class:	Protected from the front against dust in damaging quantities and protection against splashing water on all sides to IP54 (with seal), rear protection class IP20.
Scope of delivery:	Device, mounting material, seal,
Certificates & approvals:	CE
Housing:	Plastic housing made of polycarbonate V0 Front panel: Silicone rubber
Weight:	approx. 165 g
Customs tariff number:	9026 80 20
Manufacturer:	Wachendorff Prozesstechnik GmbH & Co. KG

#### Products Order no.

MA964802	Modbus remote display
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#### Accessories Order no.

SFUR0USB	USB programming module (optional for series commissioning)
URDR9648	DIN rail adapter for UA96480X, DMS9648O, MA964802, ZTA9648O



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