

Technical Data

Litronic-MMG

Moisture Measurement Gateway



Litronic-MMG

Features

- Ideal for single sensor applications
- Processing of sensor measurement values
- Freely scalable measuring range
- Material curve management
- Sensor replacement without recalibration
- Integrated microprocessor with mean value calculation
- Digital and analog measuring value transmission
- Wide variety of interfaces: 4-20 mA, USB-C, IO-Link (optional), HART
- Plug & Play USB-connection without driver installation

Technical data Litronic-MMG

Measuring range	0 to 100 % moisture content
Update cycle	32.64 ms
Supply voltage	U _n = 24 V DC
Power consumption	2 VA
Ambient temperature	0 °C to 50 °C
Storage temperature	-20 °C to 60 °C
Protection class	IP66
Material housing	GD Al Si 12
Material hinge	Al Mg Si 0.5
Dimensions housing (without mounting brackets)	121mm / 96.75mm / 73mm
Cable length between sensor and Litronic-MMG	6 m

Technical data 4-20 mA & HART interface

Description	Output for current loop with external termination resistor
Connector	M8, 4-pol, socket
Termination resistance	250-500Ω
Valid measurement	3.75 mA to 21.6 mA (NAMUR)
Error display	<3.6 mA to >22 mA (NAMUR)
Signal resolution interface	16 bit
Max. length of connection cable	1000 m (cable type dependent)

Technical data serial interface via USB

Description	USB-connection for operating the WIO-Software
Connector	USB Type C
Communication protocol	USB 2.0
Max. length of connection cable	3 m

Technical data sensor interface

Description	Connection for moisture measurement sensor with streaming functionality
Connector	M12, 8-pol, socket, a-coded
Max. length of connection cable	6 m

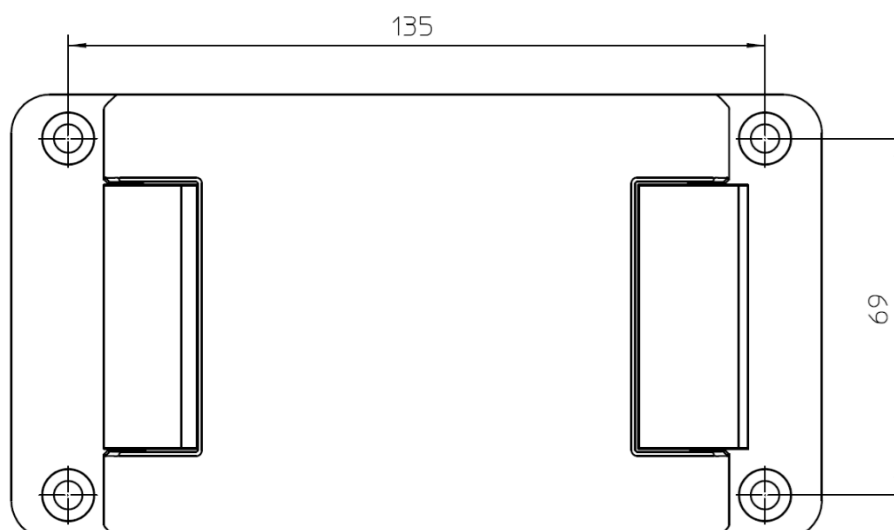
Technical data supply & IO-Link interface

Description	Power supply and optional IO-Link interface with communication adapter (accessories)
Connector	M12, 4-pol, plug, a-coded
Max. length of connection cable direct power supply	20 m
Max. length of connection cable power supply over io-link	20 m

Pin assignment communication adapter

Pin 1	24 V DC
Pin 2	-
Pin 3	Ground
Pin 4	C/Q (IO-Link)

Dimensional drawing



All measurements are in millimetres.

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Litronic-MMG PC-SOFTWARE WIO

For commissioning and service.

Features:

- Operation with USB-cable or standard HART modem and PC (MS-Windows 10 & 11)
- Parameterization of the sensors
- Diagnostic function with display of measuring parts, water content, media temperature
- Input of media-specific curves (linear or polynomial up to 3rd order)
- Measurement and data recording in file

Default language of the software and the online help is German, English and French.

Note: Translation into other languages is possible at additional costs.