

UDM 501

Ultraschall Durchflussmesser

The UDM501 is a compact ultrasonic flowmeter for non invasive measurements on filled pipes.

The device is ideally suited for permanent measurements as well as for temporary measurements thanks to its simple installation. Signal outputs in analog and digital versions make it possible to integrate the device into your process control system.

It is also possible to communicate with the device via the Modbus RTU interface. As an option, the worms can be equipped with temperature sensors and a temperature measuring card to measure the quantity of worms.



SPECIFICATIONS

AREA OF APPLICATION

Measuring range	±0,01 m/s to ±5,00 m/s
Accuracy	±1 % of the measured value
Pipe diameter	DN25 to DN1200
Pipe material	Steel, stainless steel, cast iron, ductile cast iron, copper, PVC, aluminum, asbestos and und fiberglass / epoxy
Medium	Water / waste water

FUNCTIONS AND TECHNOLOGY

Outputs	Relay output for pulses OCT pulse (0-5000 Hz) Analog output 4-20 mA (max. 750Ω) Frequency output RS485 Modbus
Communication interface	RS485 Modbus
Power supply	10-36 VDC / 1A
Keyboard	16 keys (4x4)
Display	Two-line alphanumeric LC with backlighting
Temperatures in the operating range	UDM101: -10 °C to + 50 °C Sensors: 0 °C to 80 °C
Rel. humidity in operating range	Up to 99 % r.h. (non-condensing)

GENERAL INFORMATION ABOUT THE DEVICE

Protection class	UDM501: IP65 Sensors: IP68
Sensor cables	9 m (up to 300 m possible)
Weight	UDM501: approx. 3.5 kg Sensors: 0.4 kg

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