

Flow data logger

FDL-400

Brief description

The FDL-400 „Flow Data Logger 400“, ist used for recording, processing, storing and displaying measurement data from the flow sensor DSM-2420. The FDL supplies the connected measurement sensor with th necessary voltage.

Measurement data is stored on a SD-Card (Secure Digital Memory Card). Additionally, the device has a mini-USB interface on the top under a closable flap. Measurement data can be transferred via this interface.

Functionality

Programming all required parameters is done using a 16-key keyboard on the front of the device.

The 4-line display shows the individual values of the flow velocity, fill level, flow rate and flow volume. The evaluation is performed based on the flow rate formula $Q = V \times A$ (Q = flow rate; V = flow velocity; A = wetted area)

TECHNICAL DATA

Characteristics

Housing	Aluminium
Dimensions	197 x 153 x 37,5mm (W x H x D)
Protection class	IP30
Power supply	24V DC +/-20%
Power consumption	120mA – 220mA (depending on the sensor and analog output power)
Temperature range	0°C ... 50°C
Fuse	Device is protected against overvoltage
Display	4x20 for flow velocity, fill level, flow rate and flow totalizer

Outputs

3 x analog 0(4) – 20 mA	Load 100Ω - 900Ω freely configurable for standard flow rate, extra flow rate, flow velocity and fill level.
4 x digital	optocoupled, p-switching transistor outputs (PNP) - 12 - 30V / 50mA, short-circuit proof
1 x fixed	configured as an alarm
3 x freely configurable	for standard flow rate, extra flow rate, volume pulse, flow velocity and fill level



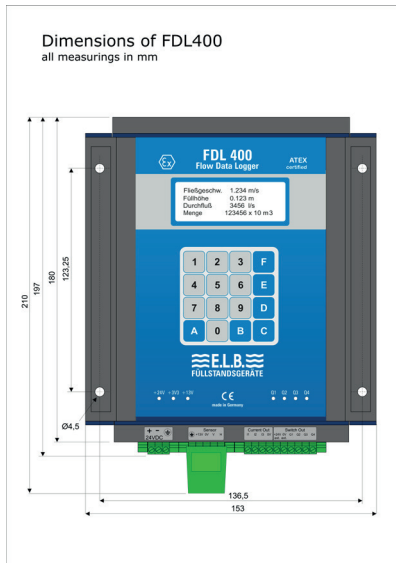
Special features

- ✓ Wall or rail mounting
- ✓ Display for flow velocity, fill level, flow, flow rate
- ✓ Suitable for Ex atmospheres
- ✓ Configurable outputs

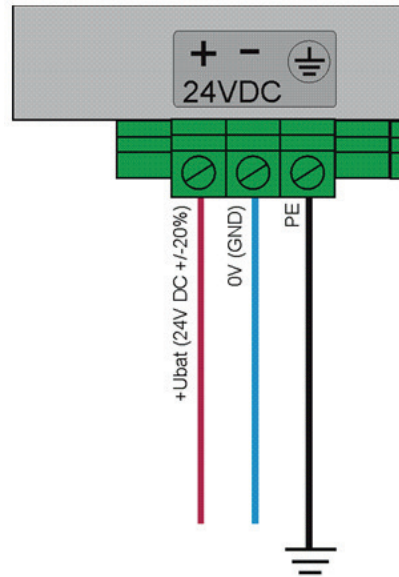
Your advantages as a system operator

- ✓ Optimization in the planning or operation of your sewer network
- ✓ Support for efficient system operation
- ✓ Sensor-based control of systems and processes in water management
- ✓ Enhanced environmental protection
- ✓ Ideal for self-monitoring of wastewater plants
- ✓ Easy installation in existing sewer structures without on-site measures

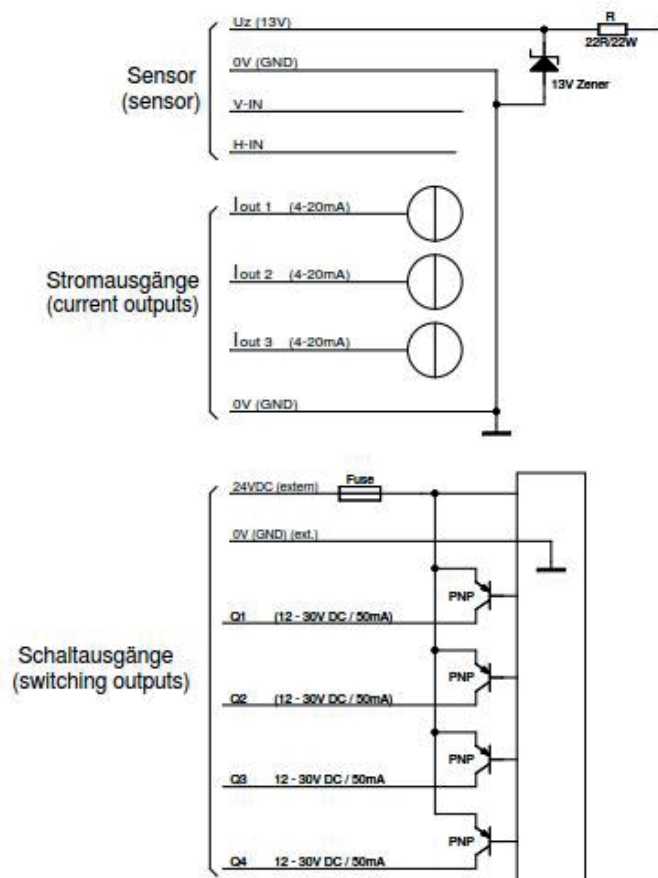
Dimensional drawing



Power supply connection



Wiring diagram



Output connections

