

OPERATING INSTRUCTIONS

MSE 300

DIN RAIL 2 EVALUATION UNIT







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1. Compatibility

The Din Rail 2 evaluation unit is compatible with SolidFlow 2.0, Paddy, PicoFlow, MaxxFlow HTC, DensFlow, SpeedFlow 2.0, SlideControl, ProSens, M-Sens 3, M-Sens 2, M-Sens WR.

2. Software

The Din Rail 2 evaluation unit is compatible with our software AE6.30 or newer version.

This software is available for download on our website:

https://www.swr-engineering.com/en/downloads.html

3. Safety

The Din Rail 2 evaluation unit is designed and built according the latest technology has been tested to be safe and was shipped in safe condition. Nevertheless persons or objects may be endangered by components of the system if these are operated in an inexpert manner.

The operating instructions must therefore be read in its entirety, and the safety instructions must be adhered to. If the device is used in a way that does not adhere to its intended and/or proper use, any liability or warranty on the part of the manufacturer is void.

3.1 Regular use

Only original spare parts and accessories of ENVEA - SWR engineering must be used.

3.2 Identification of dangers

 Possible dangers when using the system are marked by the following symbols in the operating instructions:



Warning!

• This symbol in the operating instructions marks actions, which may represent a danger for life and limb of persons when carried out in an inexpert manner.



Attention!

All actions which may endanger objects are marked with this symbol in the operating instructions.

3.3 Operational safety

- The system must be installed by trained and authorized personnel only.
- Switch of the power supply for all cabling, maintenance or inspection works.
- Evaluation unit is design to be installed in electrical cabinet and clean area.
- The components and electrical connections must be checked for damages regularly. If a damage is found, it is to repaired before further operation of the instruments.

3.4 Technical progress

ENVEA - SWR engineering reserves the right to adapt technical data to the technical progress without
particular advance notice. If you have any questions, ENVEA - SWR engineering will be pleased to
inform you on possible changes and extensions of the operating instructions.

3.5 Reliability

For any additional information concerning product reliability, please contact ENVEA - SWR engineering.



4. Mounting of the evaluation unit

- The evaluation unit can be installed at a maximum distance of 300 m from the sensor.
- A cable of type "Ölflex Classic 110 CY" is recommended.
- The cable should be four wired, twisted and shielded.
- A minimum cable cross-section of 0.5 mm² should be observed.
- For distances more than 150 m the cable cross-section should be adjusted.

The housing is prepared for DIN Rail mounting according to DIN EN 60715 TH35.

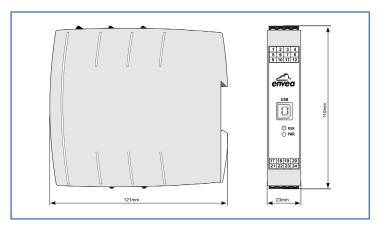


Fig. 1: Dimension of evaluation unit in DIN Rail housing

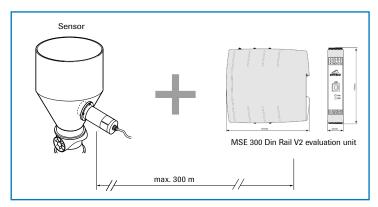
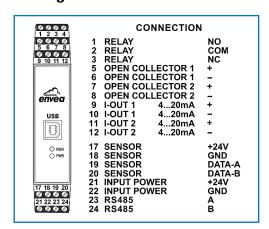


Fig. 2: Example of installation

4.1 Cabling







5. Technical data

DIN Rail 2 evaluation unit			
Power supply	24 V DC ± 10 %		
Power consumption	20 W / 24 VA		
Protection type	IP 40 to EN 60 529		
Ambient operating temperature	-10 +45°C		
Dimensions	23 x 110 x 121 (W x H x D)		
Weight	Approx. 190 g		
Interface	ModBus RTU (RS 485) / USB		
DIN Rail fastening	DIN 60715 TH35		
Connection terminals cable cross-section	0.2 – 2.5 mm² [AWG 24-14]		
Current output	2 x 4 20 mA (0 20 mA) load < 500 Ω (Active)		
Pulse output	Open Collector - Max. 30 V, 20 mA		
Relay contact	Max. rated load: 250 V AC Max. peak current: 6 A Max. rated load 230 V AC: 250 VA Max. breaking capacity DC1: 3/110/220 V: 3/0.35/0.2 A Min. switching load: 500 mW (10 V/5 mA)		
Data backup	Flash memory		



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