

CONTROL UNIT MINI-1105



DATA SHEET

Control Unit Series MINI-1000 Model 1105R.

For dynamic weighing and
feeder control applications.

- highest accuracy and stability
- compact design
- state-of-the-art technology, IoT-ready



Compact Industrial Control Unit

The MINI-1000 series was developed for various weighing systems to meet the industry's high requirements for accurate weighing of products in a small space requirement.

The compact mounting rail housing is suitable for switch cabinet installation. The parameterization is carried out via an on-site Windows® PC via a USB connection.

Modern interface options make it easier to connect to process control systems and IoT.

Supported Applications

- belt scales
- weigh belt feeders
- screw/auger scales
- solids flow meter
- impact flow meters

Performance Characteristics

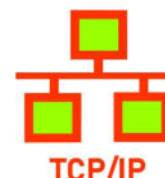
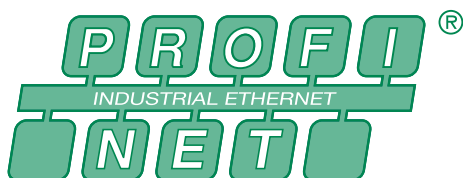
- compact housing for DIN rail mounting
- mini display
- function keys
- intuitive, user-friendly interface
- condition diagnosis
- high-resolution measurement input
- high measurement frequency
- control function for weigh belt feeders
- remote maintenance
- diverse communication options:
 - binary inputs/outputs
 - analogue output
 - serial interface
 - fieldbus interface
 - ethernet
 - USB port for parameterization





Technical Specifications

- Housing:**
- Plastic housing for DIN rail mounting 120 x 101 x 22.5 mm (without terminals), 150 g
 - Protection class: IP 20
- Operating temperature:**
- -10 ... +40 °C
- Electronics:**
- A/D input ± 16 mV DC; sensitivity 0.1 μ V/e; resolution 16,777,216 d; 4 or 6 wire
 - measuring rate 1,600 Hz (1,600 measurements per second)
 - mini LCD display; 6 digits; with 3 function keys
 - parameterization via PC program EmWeA Mach II (included)
 - extensive calibration functions
 - backup/restore; remote maintenance
 - real-time clock and data storage with internal rechargeable battery
- Power supply:**
- 18 ... 32 V DC; max. 4 W (provided by customer)
 - fusing must be provided by the customer
- Inputs:**
- 1 input for up to 8 load cells with 350 Ω each, or up to 22 load cells with 1000 Ω each
 - 1 frequency input (for speed sensor)
 - 2 digital inputs; optoisolated; 18 ... 28 V DC; PNP or NPN
- Outputs:**
- 4 binary outputs; optoisolated; max. 35 V AC/DC, nominal 0.5 A nominal, max. 1 A
 - 1 analogue output; 0/4-20 or 20-0/4 mA, optoisolated, active, resolution 10,000 d
- Serial interface:**
- RS-485
- Fieldbus interface:**
- PROFINET®; PROFIBUS®; Ethernet TCP/IP; Modbus TCP; EtherNet/IP™ (depending on model)
- Markings:**
- CE; UL (listed)



EtherNet/IP™



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