

▶ ModWeigh PPW comfort

- Control unit for impact scales and solid flow meters
- Modular design, multichannel connection
- Fieldbus interfaces
- Analog and pulse output
- Plug-in contact blocks
- Plug & play function via data stick
- Display and operator module (MD1 or MD2) - easy-to-use, modern menu navigation
- With callable alarm memory



DESCRIPTION:

The control unit ModWeigh PPW comfort is a modern and powerful weight indicator for dynamic weighing processes, e.g. impact scales and solid flow meters.

The ModWeigh PPW comfort has a modular design: transmitter MT1, module MR1 as well as a display and operator module (MD1 or MD2). Each scale needs a transmitter MT1 and up to eight transmitter can be connected to one display.

Features of ModWeigh PPW comfort:

- Very high measuring accuracy due to a powerful A/D converter, high resolution and adjustable filter
- Luminous colour displays show the current flow rate, the total quantity and other status messages
- Optionally, there are two colour displays to selection (display MD1 or MD2).
- Comfortable programming via keypad and comfortable menu navigation in German and English
- By default are available: digital I/O's, pulse input and output, analog I/O's as well as two serial interfaces (for printer and fieldbus interfaces)
- Plug & play function via data stick

FUNCTIONING:

The control unit ModWeigh PPW comfort records the signals of the load cell, normalizes the signals and generates the flow rate in kg/h or t/h and the accumulated weighing value (daily quantity and total quantity).

The measured data can either be directly transmitted via the COM interface and Modbus RTU-protocol to the other Modbus-participants or can be provided at fieldbus interfaces. Alternatively the measured data and scale parameters can be displayed on an additional display and operator module.

Simultaneously, the determined weighing value is available as a signal at the analog and pulse output.

The overruns of the characteristics are noted in the alarm memory, e.g. Flowrate default. The error list can be called and elected on the display.

The control unit is equipped with a data stick saving all parameters of the scale. In case of dysfunction of the weighing module, the stick can simply be put into the new module in order to make all scale parameters available (plug & play).

TECHNICAL DATA:

ModWeigh PPW comfort	According to the specifications of MID	
Configuration	modular design: transmitter MT1 with I/O module MR1 as well as display and operator module (optional MD1 or MD2)	
Printer interfaces	yes	
Fieldbus interfaces	Profibus DP/ Profinet IO/ CANopen/ Modbus-TPC/ EtherNet /IP optional via gateways	
Power supply	10 - 32 V DC	
Power of consumption	15 VA	
Temperature range	-10°C up to +45°C	
Housing/ protection	steel panel, powder-coated, IP 20 dimensions (LxWxD): 136 x 66 x 50 mm (MT1) and 136 x 66 x 30 mm (MR1)	
Measuring value input		
Number of load cells	max. 8 pcs. á 350 Ω	
Supply load cells	5 V DC (max. 250 mA), +/- 4 mV/V	
Resolution	0.4 μV/Count	
Speed encoder	100 Hz	
Inputs and outputs	MT1	MR1
Analog inputs	-	1 x 0(4) - 20 mA, max. resistance 1000 Ω, resolution 0.4 μA
Analog outputs	-	2 x 0(4) - 20 mA, max. resistance 1000 Ω, resolution 0.4 μA
Pulse input	1 x PNP (12 – 24 V DC, one channel)	-
Isolated pulse output	-	1 x max. 500 Hz
Serial interfaces	1 x RS 232 for printers 1 x RS 485 for fieldbus interfaces via gateways	
Protocol	Modbus RTU	
Digital inputs	1 x 24 V for external taring	8 x 24 V
Digital outputs	1 x 24 V for freely assignable switching functions	8 x 24 V
Wiring	plug-in contact blocks	
Display	Optionally colour display MD1 or MD2	

The right of technical changes is reserved.
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