

## ▶ ModWeigh DI comfort

- Control unit for loss-in-weight feeders
- With powerful A/D converter and internal PI regulator
- Digital and analog inputs for setpoint setting
- Digital outputs for status information, Analog and pulse output
- Fieldbus interfaces
- Plug & play function via data stick
- Easy to use, modern menu navigation
- With callable alarm memory



### DESCRIPTION:

The control unit ModWeigh DI comfort is a modern and comfortable processing system for loss-in-weight weighing processes. It is constructed in order to analyse the load cell signals as well as to regulate dosing tasks in loss-in-weight feeders and micro feeders.

The ModWeigh DI comfort has a modular design: transmitter MT1, module MR1 as well as a display and operator module MD1.

The control unit provides and records data such as the current flow rate, the amount, the static weighing value of the hoppers content as well as some process status information, e.g. end of charging.

Features of the ModWeigh DI comfort:

- Easy to operate via keypad and comfortable menu control in German and English
- By default are available: several digital inputs and outputs, pulse input and output, one analog input and two analog outputs as well as two serial interfaces (for printer and gateways for fieldbus interfaces)
- Plug-in contact blocks which simplify the installation, maintenance and service
- Plug & Play function via data stick

### FUNCTIONING:

The ModWeigh DI comfort generates the flow rate directly from the weight loss and controls the speed of scale's drainage system.

The determined weight value is displayed on the ModWeigh MD1 display according to the user-defined settings. In addition, the measured value "current flow rate" is available as a signal at the analog output as well as the "total quantity" at the pulse output.

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.

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:

<b>ModWeigh DI comfort</b>	<b>Ausgeführt nach den Vorgaben der MID</b>	
<b>Configuration</b>	Modular design: transmitter MT1 with I/O module MR1 as well as display and operator module MD1	
<b>Printer interface</b>	yes	
<b>Fieldbus interfaces</b>	Profibus DP/ Profinet IO/ CANopen/ Modbus-TPC/ EtherNet /IP - optional via Gateways	
<b>Power supply</b>	10 - 32 V DC	
<b>Power of consuming</b>	15 VA	
<b>Temperature range</b>	-10°C up to +45°C	
<b>Housing/ protection</b>	Steel panel, powder-coated, IP 20 Dimensions (LxWxD): 136 x 66 x 50 mm (MT1) und 136 x 66 x 30 mm (MR1)	
<b>Display MD1</b>		
<b>Dimensions (L x W x D)</b>	208 x 104 x 38 mm – panel cut out: 186 x 92 mm	
<b>Type</b>	Grafic LCD colour display, 4,3", backlighted	
<b>Operator module</b>	Embossed keys with numeric and function keys as well as softkeys	
<b>Languages</b>	German, English, other languages in preparation	
<b>Display/ protection</b>	Plastic, polycarbonat, UV constant, IP 65	
<b>Measuring value input</b>		
<b>Number of load cells</b>	Max. 8 pcs. á 350 Ω	
<b>Supply load cells</b>	5 V DC (max. 250 mA), +/- 4 mV/V	
<b>Resolution</b>	0,4 µV/Count	
<b>Speed encoder</b>	100 Hz	
<b>Inputs and outputs</b>	<b>MT1</b>	<b>MR1</b>
<b>Analog inputs</b>	-	1 x 0(4) - 20 mA, max. resistance 1000 Ω, resolution 0,4 µA
<b>Analog outputs</b>	-	2 x 0(4) - 20 mA, max. resistance 1000 Ω, resolution 0,4 µA
<b>Pulse input</b>	1 x PNP (12 – 24 V DC, one channel)	-
<b>Isolated pulse output</b>	-	1 x max. 500 Hz
<b>Serial interfaces</b>	1 x RS 232 for printer 1 x RS 485 for fieldbus interfaces via gateways	
<b>Protocol</b>	Modbus RTU	
<b>Digital inputs</b>	1 x 24 V for external taring	8 x 24 V
<b>Digital outputs</b>	1 x 24 V for freely assignable switching function	8 x 24 V
<b>Wiring</b>	Plug-in contact blocks	

