

## WM-3

*With a robust design the WM-3 is ideally suitable for weight recording, data output and control. The compact solution made of plastic is specifically designed for installation in the control cabinet. With its large variety of interfaces our weighing module can be smoothly integrated in your system. And as a WM-B variant it is even suitable for hazardous areas.*



**More information**  
High performance  
with a wide range of  
solutions and options.

Specifications	Facts	Details
<b>Housing</b>	Material: Plastic  Mounting on top hat rails TS 35 x 7.5/DIN rails	<ul style="list-style-type: none"> <li>– Polyamide PA 6.6</li> <li>– Flammability grade: V0, UL94</li> <li>– Color: light grey</li> <li>– With snap-on mounting DIN EN 50022</li> </ul>
<b>Dimensions</b>	45 x 99 x 114.5 mm (W x H x D)	Basic module
<b>IP rating</b>	IP20	Suitable for control cabinet installation
<b>Adjustment methods</b>	<ul style="list-style-type: none"> <li>– Two-point quick matching, five-point linearity matching</li> <li>– Voltage adjustment without test weights</li> <li>– Preload compensation, range adjustment</li> </ul>	
<b>Filters</b>	QSF filter	For stable weight values also in an unstable environment
<b>Basic unit</b>	<ul style="list-style-type: none"> <li>– 1 RS 422 interface connectable via terminals (bus-capable)</li> <li>– I/O (4/4)</li> <li>– ADC and without display</li> </ul>	<ul style="list-style-type: none"> <li>– 4 static inputs and outputs, galvanically isolated</li> <li>– IXNet instruction set, network-capable</li> </ul>
<b>I/O signals</b>	<ul style="list-style-type: none"> <li>– Static input / output signals, opto-decoupled</li> <li>– Transistor outputs</li> <li>– Optocoupler inputs</li> <li>– External power supply for I/O signals:</li> <li>– Individual function assignment for all input and output signals</li> <li>– Adjustable signal hold / delay times</li> <li>– Adjustable signal level</li> </ul>	<ul style="list-style-type: none"> <li>– I<sub>max</sub> = 50 mA at 5 - 30 V DC</li> <li>– I<sub>min</sub> = 1.3 – 11.3 mA at 5 - 30 V DC</li> <li>– 5 to 30 V DC</li> <li>– Active "high" or active "low"</li> </ul>
<b>Connection load receptor/load cell</b>	<ul style="list-style-type: none"> <li>– Analog load receptors or load cell group</li> <li>– Min. impedance</li> <li>– Connection</li> </ul>	<ul style="list-style-type: none"> <li>– 56 ohm, with Ex barrier 85 Ohm</li> <li>– Max. 6 x 350 ohm weighing cells or 8 x 1,000 ohm weighing cells</li> </ul>
<b>With Ex barrier also analog load receptors in the explosion protection zone 1/21</b>	<ul style="list-style-type: none"> <li>– Measured value provision</li> <li>– Supply voltage</li> <li>– Load cell connection</li> <li>– QSF filter</li> </ul>	<ul style="list-style-type: none"> <li>– 2.5 ms/400 Hz</li> <li>– 5 V or 10 V</li> <li>– 4 or 6-wire technology</li> </ul>

<b>Auxiliary power</b>	24 V DC, external power supply or on-site	Voltage distribution from WM to WM, via bus connector
<b>Power consumption</b>	200 mA to 500 mA	Depending on equipment
<b>Ambient temperature</b>	<ul style="list-style-type: none"> <li>– Operation: -10 °C to +40 °C</li> <li>– Storage: -20 °C to +60 °C</li> </ul>	
<b>Configuration kit</b>	<ul style="list-style-type: none"> <li>– CD with programming tool and operating instructions</li> <li>– USB cable for PC connection for programming and scale calibration. USB connection can only be used for programming tool</li> <li>– CD with software tool for reading of metrologically approved data storage: ESView</li> </ul>	Programming of scale data, performing adjustments, configuring of serial and network interfaces, configuration of data output and static input/output signals, 10 additional character sets for accompanying texts and substitutes such as net, gross, tare weight, data backup, etc. in 5 different languages: Germany, English, French, Italian, and Spanish

<b>Options</b>	<b>Facts</b>	<b>Details</b>
<b>Dimensions W x H x D</b>	<ul style="list-style-type: none"> <li>– Basic module + expansion module for network interfaces</li> <li>– Basic module + EM for network interfaces + EM I/O (8/8)</li> <li>– Basic module + expansion module I/O (8/8)</li> <li>– WM-B: Load cell barrier for load receptor in Ex zone 1/21</li> </ul>	<ul style="list-style-type: none"> <li>– 90.0 x 99 x 114.5 mm</li> <li>– 90.0 x 99 x 114.5 mm</li> <li>– 67.5 x 99 x 114.5 mm</li> <li>– 67.5 x 99 x 114.5 mm</li> </ul>
<b>Scale connection</b>	<ul style="list-style-type: none"> <li>– ADC</li> <li>– Barrier ADC-B5</li> <li>– Barrier ADC-B10</li> <li>– Pesa</li> </ul>	<ul style="list-style-type: none"> <li>– Not suitable for hazardous area</li> </ul>
<b>Display</b>	Mini display or external metrologically approved display	Large numeric display
<b>Metrological approval</b>	<ul style="list-style-type: none"> <li>– Not verifiable</li> <li>– EU verifiable, NAWI</li> </ul>	<ul style="list-style-type: none"> <li>– Verification/calibration of the Ex load receptor only for Ex-free environment</li> </ul>
<b>Extension modules</b>	<p>Module for network interfaces:</p> <ul style="list-style-type: none"> <li>– 1 slot for Ethernet or Profibus</li> <li>– 1 slot for SD card (ES memory card)</li> <li>– 1 x RS232</li> <li>– Extension module I/O (8/8)</li> <li>– Extension module I/O (8/8) with analog output</li> </ul>	<ul style="list-style-type: none"> <li>– ES SD memory serves as non-volatile memory of measured values in a metrologically approved data storage medium</li> <li>– RS232, connected via terminals, Ix-Net instruction set</li> <li>– Resolution: 16 bit, apparent ohmic resistance: 500 ohm</li> </ul>

<b>Network interfaces</b>	<ul style="list-style-type: none"> <li>– Ethernet TCP/IP, 10/100 Mbit (RJ 45 socket)</li> <li>– Profibus DP V1, 12 Mbit, Simple Scale Protocol or WMScale protocol</li> <li>– Profinet IO</li> </ul>	<ul style="list-style-type: none"> <li>– 8 static inputs and outputs, galvanically isolated</li> </ul>
<b>Licenses</b>	<ul style="list-style-type: none"> <li>– Ethernet/Profibus DP/Profinet-IO</li> <li>– Connection telemodem</li> <li>– Connection of large numeric display, e.g. Siebert display</li> <li>– Data storage kit Extend</li> </ul>	<ul style="list-style-type: none"> <li>– Expanded memory option for data storage kit Basic for any data</li> </ul>
<b>Metrologically approved data storage</b>	Data storage kit Basic	
<b>Accessories</b>	<ul style="list-style-type: none"> <li>– External power supply 230 V/24 V DC</li> <li>– 1x bus connector + 1x terminal</li> <li>– 3 x bus connector</li> <li>– Profibus DP plug</li> <li>– Analog output plug</li> </ul>	<ul style="list-style-type: none"> <li>– Connection of max. 3 WM devices</li> <li>– 9-pin Sub-D connector to be attached to the WM-DP bus interface; wiring to be provided by customer</li> <li>– 9-pin Sub-D to be attached to the WM analog interface with wiring for terminal block</li> </ul>
<b>Analog output</b>	0/4-20 mA, 0-10 V DC	Apparent ohmic resistance: 500 ohm
<b>Measuring, control, data cables</b>	<ul style="list-style-type: none"> <li>– Measuring cable</li> <li>– Control cable</li> <li>– Data cable</li> </ul>	<ul style="list-style-type: none"> <li>– Connection via 9-pin Sub-D connector</li> <li>– Connection via 9-pin Sub-D connector</li> </ul>
<b>Measuring cables Ex-ib for WM-B</b>	<ul style="list-style-type: none"> <li>– Measuring cable Ex-ib 0.34 mm<sup>2</sup></li> <li>– Measuring cable Ex-ib 1.0 mm<sup>2</sup></li> <li>– 2 times intermediary terminal box (ITB) + 3 m measuring cable 0.34 mm<sup>2</sup></li> </ul>	<ul style="list-style-type: none"> <li>– Up to max. 100 m cable length</li> <li>– Up to max. 300 m cable length</li> <li>– Connection from WM-B to ITB and from ITB to load receptor</li> </ul>

## Symbols



IP20 protection

## Dimensional drawings

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