

MWLH weighing modules

Series of professional electromagnetic modules of high resolution guarantees highly precise and fast measurement.





Easy access to the most functional interfaces



Ease of adaptation to the required storage space

MWLH

Features

Vast Max Capacity Range

Magnetoelectric weighing modules MWLH are intended for mass measurement ranging from 10kg to 35kg. Minimum readability of 0.01g guarantees amazing accuracy for your measurement.

Protection Against Challenging Conditions

Hermetic versions of modules feature stainless steel housing with IP65. This allows operation even in the most challenging conditions. Mechanical design lacks sharp edges and gaps which ensures adherence to HACCP, GMP and FDA standards for safety and quality of operation.

Fast and Precise Measurement

High measurement accuracy with sd=1d* guarantees both readout of real weighing results and repeatability of indications. Cutting-edge design solutions provide fast measurement which is an asset allowing to install the module on automated production lines. Intended for fast and dynamic measuring processes the weighing module's converter throughput is 3200 meas./s **.

Cooperation with terminals

Connecting the module to a multifunctional weighing terminal expands communication interfaces range and increases usage in industrial applications.

Technical Specifications

Maximum and site [Max]	MWLH 10	MWLH 25	MWLH 30	MWLH 35
Maximum capacity [Max]	10 kg	25 kg	30 kg	35 kg
Input load (preload range)	1 kg	2.5 kg	3 kg	3.5 kg
Minimum capacity	0.5 g	5 g	5 g	5 g
Readability [d]	0.01 g	0.1 g	0.1 g	0.1 g
Verification unit [e]	—	—	—	—
Tare range	–10 kg	–25 kg	–30 kg	–35 kg
Repeatability*	0.01 g	0.1 g	0.1 g	0.1 g
Linearity	±0.02 g	±0.1 g	±0.3 g	±0.3 g
Sensitivity temperature drift**	2×10^{-6} / °C × Rt	2×10^{-6} / °C \times Rt	2×10^{-6} / °C × Rt	2×10^{-6} / °C × Rt
Stabilization time	3 s	2 s	2 s	2 s
Adjustment	external	external	external	external
Verification	_	—	—	—
OIML Class	_	_	_	_
Construction material	construction aluminium, housing AISI304	aluminium	aluminium	aluminium
Weighing pan material	aluminium	aluminim	aluminium	aluminium
Display	_	_	_	_
Protection class	IP 65	IP 65	IP 65	IP 65
RS 232	1	1	1	1
RS 485	1	1	1	1
Ethernet	1	1	1	1
IN/OUT	$2 \times IN, 2 \times OUT$	$2 \times IN, 2 \times OUT$	$2 \times IN$, $2 \times OUT$	$2 \times IN$, $2 \times OUT$
Transmission protocols	RADWAG, ASCII code, MODBUS	RADWAG, ASCII code, MODBUS	RADWAG, ASCII code, MODBUS	RADWAG, ASCII code, MODBUS
PROFIBUS module***	1	1	1	1
Power supply	12 ÷ 24 V DC	12 ÷ 24 V DC	12 ÷ 24 V DC	12 ÷ 24 V DC
Power consumption	5 W	5 W	5 W	5 W
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Atmospheric humidity****	15 ÷ 80%	15 ÷ 80%	15 ÷ 80%	15 ÷ 80%
Transport and storage temperature	-20 ÷ +50 ℃	-20 ÷ +50 ℃	-20 ÷ +50 ℃	-20 ÷ +50 ℃
Weighing pan dimensions	212 × 174 mm	212 × 174 mm	212 × 174 mm	212 × 174 mm
Weighing device dimensions	344 × 224 × 164 mm	344 × 224 × 164 mm	344 × 224 × 164 mm	344 × 224 × 164 mm
Net weight	12.4 kg	12.4 kg	12.4 kg	12.4 kg
Gross weight	15 kg	15 kg	15 kg	15 kg

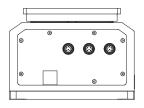
Rt net weight

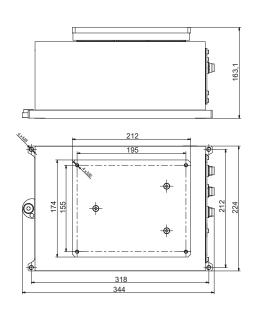
* **

repeatability is expressed as a standard deviation from 10 weighing cycles parameter determined in the following temperature range: +15 \div +35 °C interface installed interchangeably with Ethernet, IN/OUT, RS 485

**** non-condensing conditions

Dimensions





MWLH

Accessories

Cables, Converters

- PT0347 –RS 232 cable (platform terminal PUE HY10, PUE 5)
- PT0348 RS 232 cable (platform computer)
- PT0302 Ethernet cable with straight plug (platform terminal PUE HY10, PUE 5)
- PT0303 Ethernet cable with angle plug (platform terminal PUE HY10, PUE 5)
- PT0256 IN/OUT cable
- P0198 Ethernet cable (M12 4P)

Dedicated Software

MWMH-Manager

- option of adjustement of HRP platforms and MWSH, MWLH and MWMH modules,
- option of readout of mass from HRP platforms and modules using the computer,
- option of taring and zeroing HRP platforms and modules using the computer,
- option of setting weighing filters for HRP platforms and modules. **RAD KEY**
- Establishing cooperation between a weighing instrument and a computer

RADWAG Development Studio

- presentation of functions (and subfunctions) of communication protocol (Common Communication Protocol)
- possibility of connection with weighing equipment on which each function is carried out,
- library with mass control, contained within the development environment
- complete documentation of the communication protocol
- set of user manuals for different solutions addressed for programmers employed in companies using RADWAG-manufactured weighing equipment

Compatible Weighing Werminals • PUE HY10 Electrical Accessories

• power supply SYS-1544-2415-T3-HR

LabView Driver

• operation of RADWAG balances in LabView environment

RADWAG Connect

- establishing communication with all balances, scales and weighing modules using Common Communication Protocol
- communication via local network,
- support of basic functions
- auto searching for devices
- connecting with few devices simultaneously, swapping between them
- clear list of connected platforms
- record of measurements in the program,
- export of carried out measurements to CSV file,
- work performed using freely selected device with Windows 10 operating system