Designed for Automation

Tailored for Multi-Line Weighing



Compact Size

The small width of 25 mm enables to build arrays with a minimal pitch to allow parallel multi-line weighing on small space to achieve highest throughput in production and research.



All Inclusive

Fieldbus connectivity, power over Ethernet, calibration weight and electronics. All parts are incorporated in the rugged stainless steel housing with optional IP65 protection for cleaning.





Overload Protection

The weigh module benefits from comprehensive overload protection. This protects the weigh module in the event of malfunction of handling devices or mistakes during installation.



Functionality Test

The module can be verified at any time with the internal calibration weight. The adapters on the weighing pan don't have to be removed if they weigh less than 70 g.

WMF

High-Precision Weigh Modules

Industrial automation applications require multiple lines connected to a single control system, which makes it necessary to have sensors that can support that requirement.

WMF weigh modules are designed with that in mind and are tailored for multi-line automation systems. Fully integrated Industrial Ethernet interface (EtherNet/IP and PROFINET IO RT) allows integration into a real-time automation network.



Model Specific Weighing Data

300 g 320 g 25 g			
25 g			
1 ma			
1 mg			
✓			
1 mg			
2 mg			
2 mg (100 g)			
0.45 mg/°C			
0.4 mg			
0.4 s			
10 °C to 30 °C			
5 °C to 40 °C			
-20 °C to 70 °C			
20 % to 80 %			
45 minutes			

Mi) Maximum preload on top of "preload reference" weighing pan to maintain maximum capacity, Maximum preload on top of "preload reference" weighing pan to maintain maximum capacity, Maximum preload on top of "preload reference" weighing pan to maintain maximum capacity, Maximum preload on top of "preload reference" weighing pan to maintain maximum capacity, Maximum preload on top of "preload reference" weighing pan to maintain maximum capacity, Maximum preload on top of "preload reference" weighing pan to maintain maximum capacity, Maximum preload on top of "preload reference" weighing pan to maintain maximum capacity, Maximum preload on top of "preload reference" weighing pan to maintain maximum capacity, Maximum preload on top of "preload reference" weighing pan to maintain maximum capacity, Maximum preload on top of "preload reference" weighing pan to maintain maximum capacity, Maximum preload on top of "preload reference" weighing pan to maintain maximum capacity, Maximum preload on top of "preload reference" weighing pan to maintain maximum capacity, Maximum preload on top of "preload reference" weighing pan to maintain maximum capacity, Maximum preload on top of "preload reference" weighing pan to maintain maximum capacity, Maximum preload on top of "preload reference" weighing pan to maintain maximum capacity, Maximum preload on top of "preload reference" weighing pan to maximum capacity, Maximum preload on top of "preload reference" weighing pan to maximum capacity, Maximum preload on top of "preload reference" weighing pan to maximum capacity, Maximum preload on top of "preload reference" weighing pan to maximum capacity, Maximum preload on top of "preload reference" weighing pan to maximum capacity, Maximum preload on top of "preload reference" weighing pan to maximum capacity, Maximum preload on top of "preload reference" weighing pan to maximum capacity, Maximum preload on top of "preload reference" weighing pan to maximum capacity, Maximum preload on top of "preload reference" weight pan to maximu

General Data

Electrical connection

Power over Ethernet (PoE)			
Class 1 PD (< 3.84 W)			
Mode/Alternative A (Phantom Power)			
M12, 4 pins, D-coded, male			
EtherNet/IP			
PROFINET IO RT			
92 values/s and 366 values/s ^{G1)}			
IP44			
IP65			
Stainless steel (1.4404 / 316L)			
Stainless steel (1.4404 / 316L)			
-			
FPM, FDA compliant			
2 years			
Silicone, FDA compliant			
4 mm (5/32 inch)			
0.6 +/-0.1 bar(g)			
max. 1 bar(g)			
	Mode/Alternative A (Phantom Power) M12, 4 pins, D-coded, male EtherNet/IP PROFINET IO RT 92 values/s and 366 values/s (a1) IP44 IP65 Stainless steel (1.4404 / 316L) Stainless steel (1.4404 / 316L) FPM, FDA compliant 2 years Silicone, FDA compliant 4 mm (5/32 inch)		

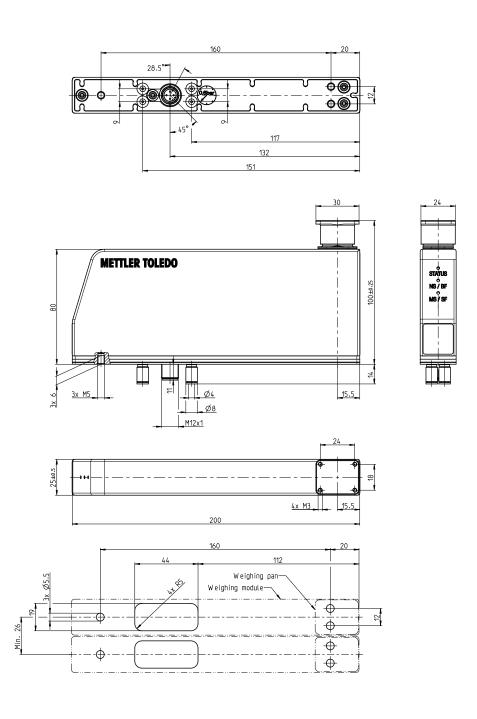
⁶¹⁾ Fast Weight Channel. 62) Only with optional washdown configuration. 63) Refer to engineering note "Active Cooling Function" for more information.

Scope of Delivery

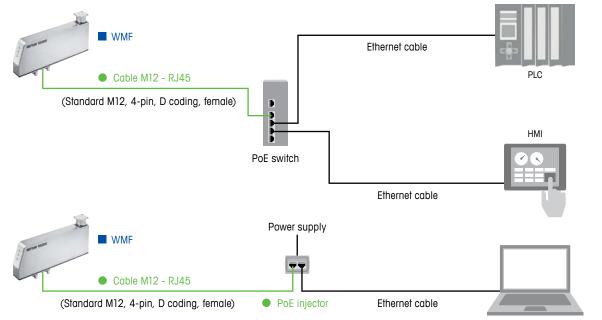
Item	Description
WMF	Weigh module
Adapter weighing pan (preload reference)	24 x 30 mm, with threaded holes
Gasket	Bottom
User manual	
Production certificate	
Declaration of conformity	
Air connectors SI)	For washdown function (2x) SI)

SI) Only with optional washdown configuration.

Drawings (mm)



Typical Configurations



PC (for service and configuration)
APW Link (free MT software)

- Scope of delivery
- Accessories from METTLER TOLEDO

Accessories

Item	Description	ltem number
Weighing pan	24 x 30 mm, without threaded holes	303 001 73
Cable M12 - RJ45	Connection cable for weigh module (2 m, PUR)	303 261 12
Cable M12 - RJ45	Connection cable for weigh module (5 m, PUR)	304 019 00
Cable M12 - RJ45	Connection cable for weigh module (10 m, PUR)	304 019 20
Air connectors	For cooling function (2x)	303 071 94
PoE injector	Power supply for the weigh module	303 261 11
Ethernet/USB converter	To connect a service PC	303 261 10

Order Information

Module	Capacity/Resolution	Washdown	Interface type	
			EtherNet/IP	PROFINET IO RT
WMF204C	220 g / 0.1 mg	Yes	302 822 30	302 822 32
	220 g / 0.1 mg	No	302 822 19	302 822 31
WMF303C	320 g / 1 mg	Yes	302 822 34	302 822 36
	320 g / 1 mg	No	302 822 33 302 822	302 822 35



Industrial Division Local contact: www.mt.com/contacts www.mt.com/WMF _

For more information

