Weigh Modules

WX Weigh Modules

Rugged design

High weighing capacity

Space-saving installation

Maximum Precision for Automation

Fast, Flexible, Easy to Integrate

METTLER TOLEDO

Automated Weighing From Just 1 µg
Flexibility for Complex Solutions

The WX family is designed for high-precision automated as well as manual weighing in instruments, machines and isolators. It features models with readabilities from 0.1 µg to 0.1 mg with weighing capacities from 22 g to 220 g. The compact design means that installation is straightforward and space saving. The comprehensive overload protection and rugged plug-in connections are designed for use in analytical processes and production applications.

High productivity
The fast weighing technology and data transmission of the WX modules deliver reproducible values within fractions of a second, thereby accelerating filling, production, and testing processes. The design, features a removable weighing pan and a cover to seal the opening exposed by removing the pan. This allows the modules to be rinsed with cleaning fluid so that they can be cleaned quickly and thoroughly when products and formats are changed. As a result, the innovative WX modules increase productivity.

Integrated calibration weights

Functionallity, linearity, and precision can be checked at any time with two integrated calibration weights. Customer-specific adapters on top of the weighing pan do not need to be removed for calibration if they are less than 25% of full load.
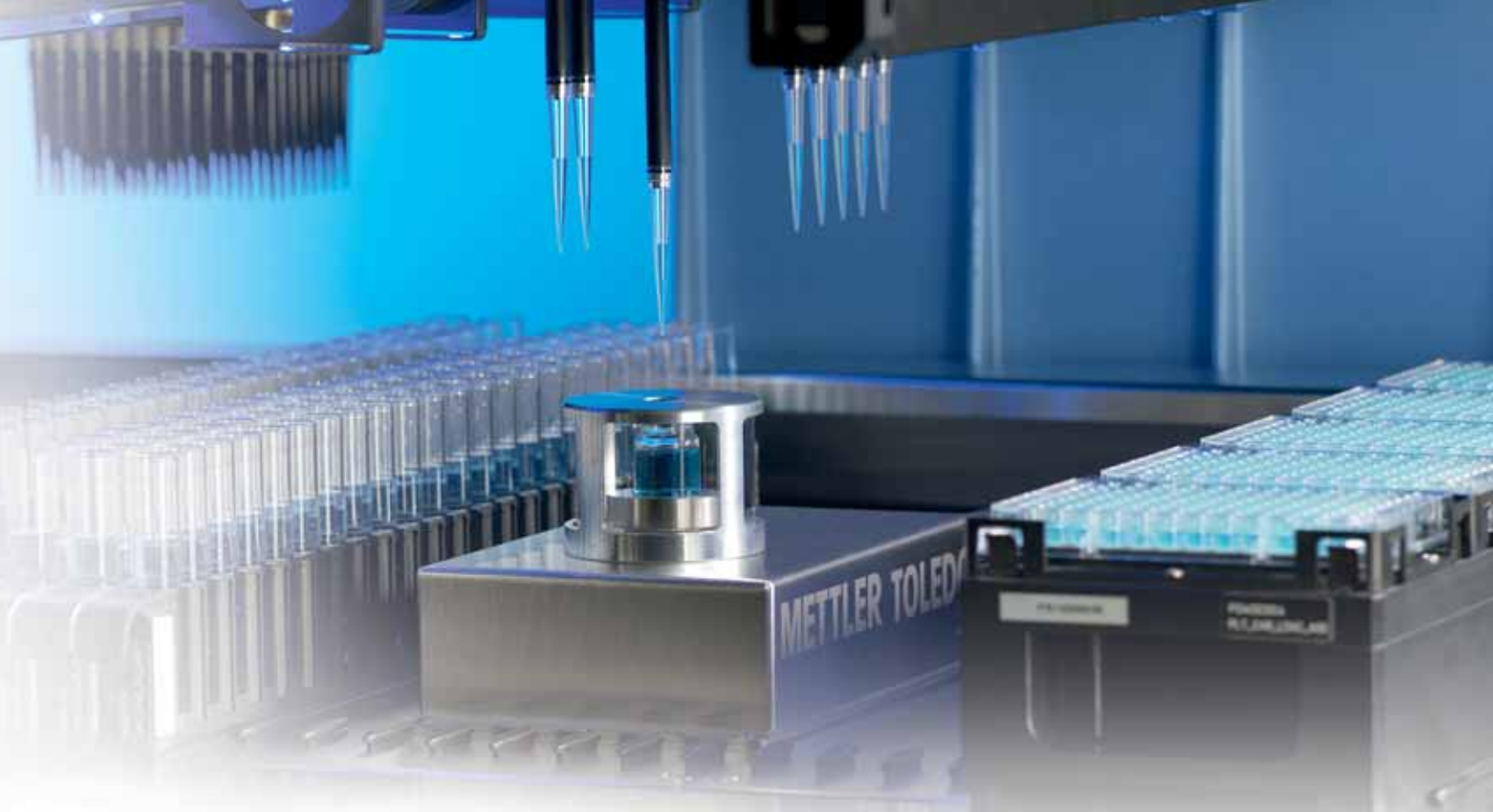
Adaptable weighing pan

The weighing pan has three holes to fasten customized adapters to hold vials or tubes. An adapter may weigh 1/3 of the full load without restricting weighing capacity. The pan can be lifted off the weigh module without having to use tools.

Flexible layout and assembly

The electronic unit can be installed separately from the weighing cell. The devices can be located up to 5 m apart. A set for optional DIN rail mounting is supplied with the modules.

Plug and play

Communication between weigh module, electronic unit, and optional terminal is operational immediately. There is no need for programming in advance. This plug and play functionality saves time when getting started and the user can easily replace individual devices in the event of a fault.

Below-the-Module Weighing

An optional adapter allows to weigh suspeneded loads below the weigh module. Overload protection is still assured in all directions.

Adaptable software

With their extensive parameter sets, WX modules can be configured so that they are optimized for virtually any application and environment. A computer based software for parameterization, diagnostics, and data backup makes getting started easy.

Accessible from all sides

The space-saving WXT weigh modules with powder-coated housing are suitable for manual weighing processes wherever space is at a premium. 360° accessibility maximizes flexibility where both layout and operation are concerned.

Designed for Automation
Rugged, Reliable, and Safe

The high-precision WX weigh module is compact and rugged by design. As such, it is suitable for semi- and fully-automatic processes, as well as for manual weighing, wherever space is at a premium.

Mechanical overload devices on all sides protect the weigh module in the event of collisions with handling devices or improper operation in manual processes. The WX is available as WXS with a 316L (1.4404) stainless steel housing or as WXT with powder coated surface. Both housings are quick and easy to clean in case of format or product change.

Level indicator and adjustable feet
The WXS26 as well as the WXT models are equipped with a clearly visible level indicator. The weigh module can be leveled using the adjustable feet at any time.

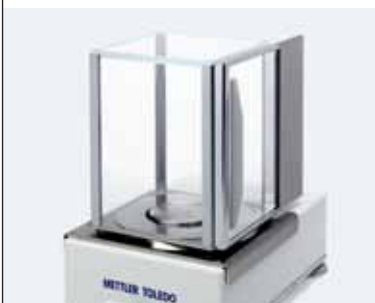| **Protection against vertical overload**	**Torsion protection**	**Protection against lateral forces**
The weighing cell benefits from mechanical protection against vertical static overload of between 25 and 50 times the weighing capacity. This protects the weigh module in the event of malfunction of handling devices or mistakes during installation.	The pan is blocked against unwanted rotation in order to keep holding devices in position. However, the blockade opens in the event of collisions with handling devices, so that the pan can be turned through its own axis without risk of damage.	The weighing cell benefits from mechanical protection against lateral forces such as those occuring during automatic loading and unloading of the weighing pan or in the event of malfunction of handling equipment.

Quick to clean

Efficient cleaning of the entire system is a common requirement in order to avoid cross contamination when formats and products change. The weighing pan is easily removed for cleaning. The opening exposed can be sealed with the cover supplied. Thanks to the rugged industrial plug connectors with IP67 protection, the weighing module can be rinsed with a cleaning fluid.

Rugged design

The stainless steel housing features flanges with threaded holes so that the weigh module can be attached appropriately. The rugged industrial plug connectors with IP67 protection ensure high levels of reliability and a long service life.

Flexible draft shield

The draft shield is quick to assemble and easy to clean. It comprises a metal frame and glass panels. Each of the panels can be removed individually, so that the weighing pans can be accessed from all sides.

Security management

The PWT terminal with color display benefits from user security management. As a result, multiple users can apply their personal settings and data when running the weigh module in manual operation.

One Product Line for All Applications

WXS models	Readability	Weighing range	Repeatability	Terminal	Order numbers Standard	Legal for Trade EU	Legal for Trade non-EU
WXS26S/15	0.001 mg	22 g	0.003 mg (20 g)	No	11121390		
WXS26SDU/15	0.001 mg/0.01 mg	11 g/22 g	0.005 mg (20 g)	No	11121467		
WXS205S/15	0.01 mg	220 g	0.04 mg (200 g)	No	11121003		
WXS205DU/15	0.01/0.1 mg	111 g/220 g	0.07 mg (200 g)	No	11121008		
WXS204S/15	0.1 mg	220 g	0.1 mg (200 g)	No	11121023		
WXSS26	0.001 mg	22 g	0.003 mg (20 g)	SWT	11121388		
WXSS26DU	0.001 mg/0.01 mg	11 g/22 g	0.005 mg (20 g)	SWT	11121465		
WXSS205	0.01 mg	220 g	0.04 mg (200 g)	SWT	11121001	11121261	11121351
WXSS205DU	0.01 mg/0.1 mg	111 g/220 g	0.07 mg (200 g)	SWT	11121006	11121266	11121356
WXSS204	0.1 mg	220 g	0.1 mg (200 g)	SWT	11121021	11121281	11121371

WTS models	Readability	Weighing range	Repeatability	Terminal	Standard	Legal for Trade EU	Legal for Trade non-EU
WXTS26	0.001 mg	22 g	0.003 mg (20 g)	SWT	11121384		
WXTS26DU	0.001 g/0.01 mg	11 g/22 g	0.005 mg (20 g)	SWT	11121461		
WXTS205	0.01 mg	220 g	0.04 mg (200 g)	SWT	11121011	11121271	11121361
WXTS205DU	0.01/0.1 mg	111 g/220 g	0.07 mg (200 g)	SWT	11121016	11121276	11121366
WXTS204	0.1 mg	220 g	0.1 mg (200 g)	SWT	11121026	11121286	11121376
WXTP26	0.001 mg	22 g	0.003 mg (20 g)	PWT	11121385		
WXTP26DU	0.001 mg/0.01 mg	11 g/22 g	0.005 mg (20 g)	PWT	11121462		
WXTP205	0.01 mg	220 g	0.04 mg (200 g)	PWT	11121012		
WXTP205DU	0.01 g/0.1 mg	111 g/220 g	0.07 mg (200 g)	PWT	11121017		
WXTP204	0.1 mg	220 g	0.1 mg (200 g)	PWT	11121027		

Interface options (plug-in modules) and accessories	Order. No.
RS232C (second RS232C interface)	11132500
LocalCAN: For connecting up to 5 devices with LocalCAN connection	11132505
MiniMettler (backwards compatible with older METTLER TOLEDO devices) [1]	11132510
PS/2: For connecting commercial keyboards and barcode readers [1]	11132520
BT (Bluetooth): For wireless control of up to 7 peripheral devices [1]	11132530
BTS (Bluetooth): For wireless connection to a BT-P42 printer, a second BT-BLD display or PC [1]	11132535
Ethernet TCP/IP to an Ethernet network	11132515
USB RS232C converter	11103691

[1] Only in conjunction with terminal

External communication modules

Profibus® DP	42102809
Profinet IO	42120859
EtherNet/IP™	42102860
DeviceNet™	42102810

Connecting cables

Load cell – electronic unit connecting cable: 0.5 m /1.6 ft	11121442
Load cell – electronic unit connecting cable: 1.5 m /5ft	11121440
Load cell – electronic unit connecting cable: 5 m /16.4ft	11121441
Terminal – electronic unit connector cable, 6-pin: 0.575 m/1.9ft	11132124
Terminal – electronic unit connector cable, 6-pin: 0.945 m/3.1ft	11132129
Terminal – electronic unit connector cable, 6-pin: 2 m/6.5ft	11132133

Miscellaneous

Weighing below adapter (for weighing suspended loads) Note: An authorized service technician must perform the installation	11121081
Mounting bracket for WXS electronic unit, including DIN clip and mounting screws	11121254
Terminal holder for SWT terminal, including mounting screws	11121255
Flexible glass draft shield with sliding door	11121071
Universal carrying case for all WXS/WXT weighing modules	11121160
Pipette calibration set with evaporation trap (6/20ml)*	11138010
Pipette calibration set with evaporation trap (100ml)*	11138009
Pipette calibration set complete (6/20ml)* (evaporation trap, suction pump, thermometer, OIML weights, etc.)	11121165

*not compatible with WX26
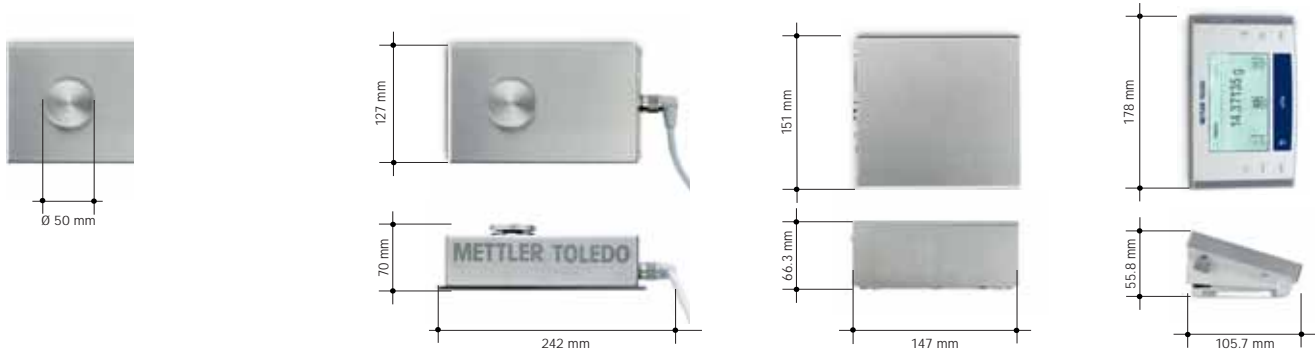

WXS Weigh Module
SWT terminal with monochrome display. Housings of weigh module and electronic unit is made of 316L (1.4404) stainless steel.
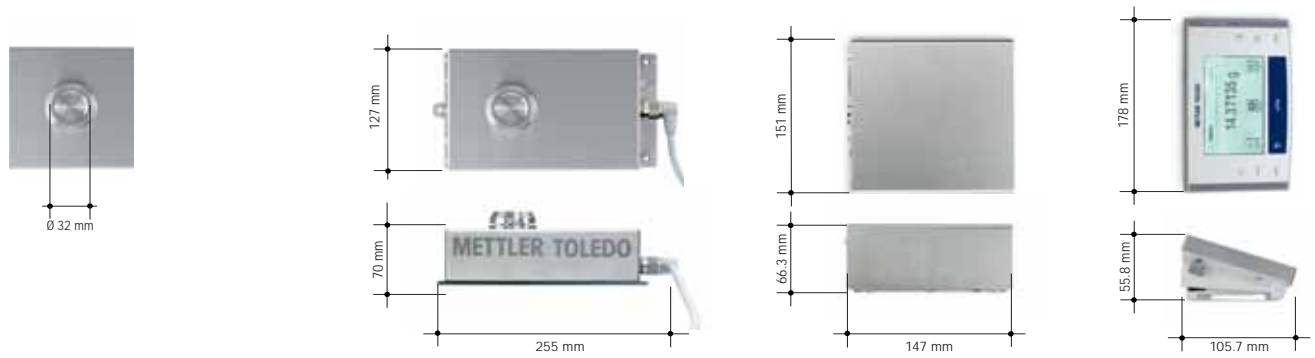

WXT Weigh Module
PWT terminal with color display or SWT terminal with monochrome display. Housings of weigh module and evaluation unit are powder coated.
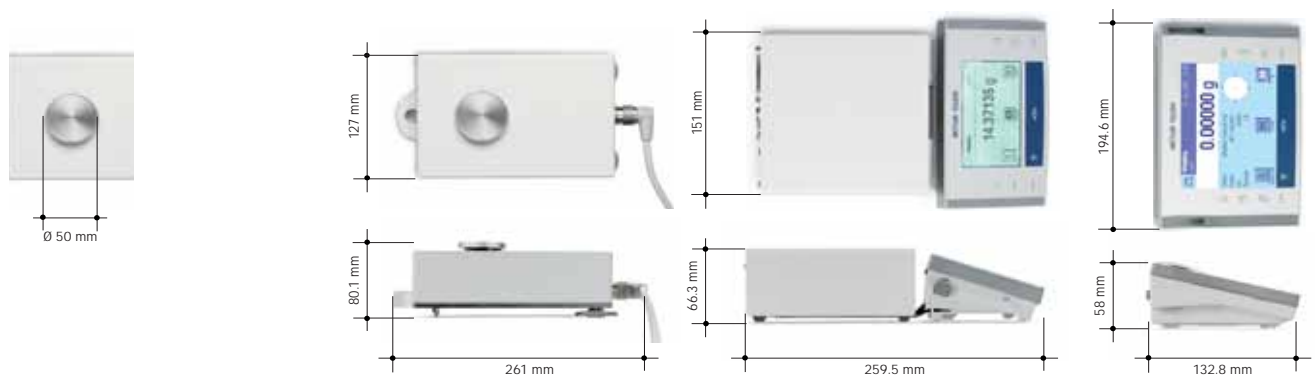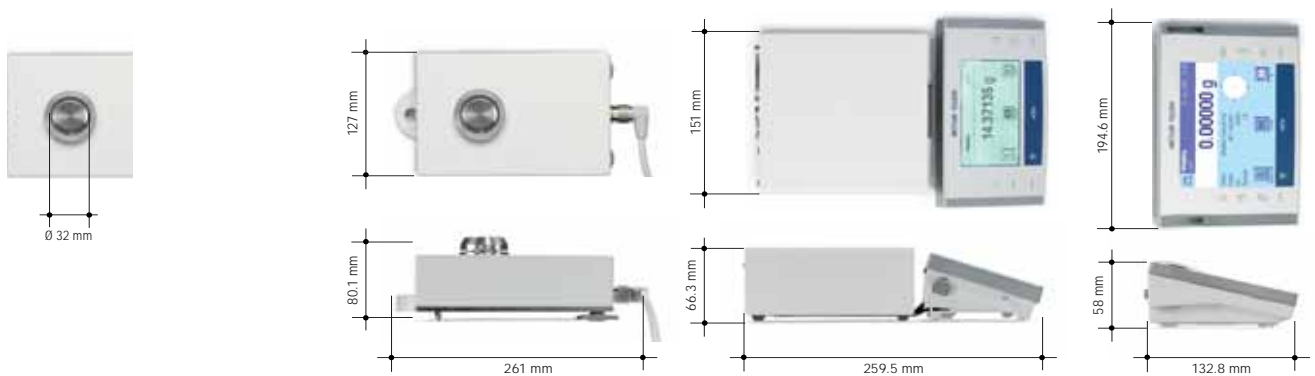
WXS models with 0.1 mg and 0.01 mg readability

Ø 50 mm

127 mm
70 mm
242 mm

151 mm
66.3 mm
147 mm

178 mm
55.8 mm
105.7 mm

WXS models with 1 µg readability

Ø 32 mm

127 mm
70 mm
255 mm

151 mm
66.3 mm
147 mm

178 mm
55.8 mm
105.7 mm

WXT models with 0.1 mg and 0.01 mg readability

Ø 50 mm

127 mm
80.1 mm
261 mm

151 mm
66.3 mm
259.5 mm

194.6 mm
58 mm
132.8 mm

WXT models with 1 µg readability

Ø 32 mm

127 mm
80.1 mm
261 mm

151 mm
66.3 mm
259.5 mm

194.6 mm
58 mm
132.8 mm

Flexible Communication
Modular and Compatible

It's easy to set up communication between WX weigh modules and Industrial computers or PLC systems. Thanks to program function blocks and engineering notes it takes very little time and effort to set up communication via standardized interfaces.

Fieldbus Module to communicate with weigh module
Automatic parameter detection and an integrated command set for the weigh module make it easy to put the METTLER TOLEDO fieldbus modules for Profibus® DP, DeviceNet™, Ethernet/IP™, or Profinet® IO into operation. DIN rail assembly makes for efficient installation.

Modular hardware concept for Interfaces
Various interface options (plug-in module) are available for the connection to Ethernet TCP/IP, PS2, Bluetooth converter or an additional RS232. The RS232 standard interface remains freely available at all times for service and configuration work.

www.mt.com/wx
More information