WX Weigh Modules
Rugged design
High weighing capacity
Space-saving installation

Maximum Precision for Automation
Fast, Flexible, Easy to Integrate
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.
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.

Below-the-Module Weighing
An optional adapter allows to weigh suspended loads below the weigh module. Overload protection is still assured in all directions.

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.
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**
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.

**Torsion protection**
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.

**Protection against lateral forces**
The weighing cell benefits from mechanical protection against lateral forces such as those occurring 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**

<table>
<thead>
<tr>
<th>WXS models</th>
<th>Readability</th>
<th>Weighing range</th>
<th>Repeatability</th>
<th>Terminal</th>
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<th>Legal for Trade EU</th>
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### Interface options (plug-in modules) and accessories

- **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: 2m/6.5ft 11132133

### Miscellaneous

- Weighing below adapter (for weighing suspended loads) 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

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**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.
WX5 models with 0.1 mg and 0.01 mg readability

WX5 models with 1 μg readability

WX5 models with 0.1 mg and 0.01 mg readability

WX5 models with 1 μg readability
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