

The Modular Solution

Fast, Flexible, Easy to Integrate



High-Precision Weighing in Automated Processes

The WXS weighing modules of METTLER TOLEDO are a new dimension in automated weighing for instruments, machines, and systems. Packaged in a compact and rugged stainless steel housing, the weighing module introduces state-of-the-art technology to your automated processes.

Maximum reliability

The concept of "on-board weighing" with 10-microgram resolution in second-intervals guarantees high productivity paired with seamless quality control and traceability.

Maximum flexibility

Thanks to its ultra-low profile and unlimited accessibility, the load cell can be integrated virtually anywhere, while the electronic unit and the optional terminal can be placed in any convenient location.

Safe investment

The high flexibility is not only based on the modular design. Rather, the WX weighing modules can be precisely configured for almost any application because of the vastly expanded parameter setting options. A PC software is included for easy configuration. The application decides which limit values the weighing module will use as a "stability criterion." Thanks to advanced, flexibly adjustable filters, highly precise weighing is feasible in even the most difficult environments.

Always ready for use

Load cell, electronic unit, and terminal can be replaced independently of each other. In case of a defect, your system is up and running within minutes.



Integrated

7 different interface options are available as plug-in modules. The RS232 standard interface remains completely available for service and configuration tasks.



Rugged

The stainless steel housing with attachment flanges and industrial-strength plug is highly durable and guarantees optimal reliability and a long service life.



Individual

The adapter weighing pan allows for custom-tailored system assemblies with an additional preload of up to 78 g.





Flexible

The electronic unit can be flexibly attached, for example with the supplied mounting bracket and DIN rail clip. Thanks to the cable length of up to 5 m per load cell, the design options are endless.



ExpandableThe optional weigh-below adapter makes it easy to attach suspended loads. The all-around overload protection stays in effect.



Modular

The unit is now also available without a terminal. The application decides whether and how a terminal will be used.

360° Accessibility for Maximum Freedom of Movement

Free accessibility from all sides and minimum space requirements. WXT weighing modules allow for highest flexibility in setup and operation. WXT always offers an ideal solution, even in locations where space is at a premium or with applications that require transportability or have to follow special process requirements.





Level bubble

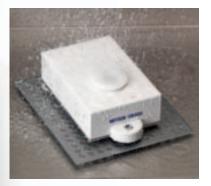
Thanks to the clearly visible level bubble and two adjustable feet, you can level the scale at any time.

Accessories



Evaporation trap

For using WXT as a stationary or mobile scale for pipette calibration.



Simple cleaning

Scales must allow for thorough cleaning to avoid cross-contamination. The simple housing design without visible screws or indentations does not allow dirt to settle in any place. And, what's more, the weighing pan can be removed in two quick steps. Simply snap on the supplied plastic cover to get the analytical balance ready for cleaning with a hose. Thanks to the industrial plug of protection class IP67, this procedure is completely harmless in terms of electrical safety.



Draft shieldQuick to install, with flexible uses.

Technical data

WXS component version	Housing	Terminal	Order. No.
WXS205SDU/15 DualRange	Stainless steel 316L (1.4404)	_	11121008
WXSS205DU DualRange	Stainless steel 316L (1.4404)	Standard (monochrome)	11121006
WXS204S/15	Stainless steel 316L (1.4404)	_	11121023
WXSS204	Stainless steel 316L (1.4404)	Standard (monochrome)	11121021

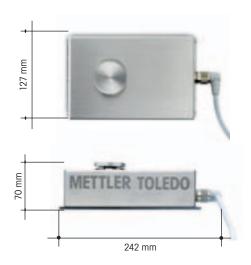
WXT benchtop version	Housing	Terminal	Order, No.
·			
WXTS205DU DualRange	white, powder-coated	Standard (monochrome)	11121016
WXTP205DU DualRange	white, powder-coated	Professional (in color)	11121017
WXTS204	white, powder-coated	Standard (monochrome)	11121026
WXTP204	white, powder-coated	Professional (in color)	11121027

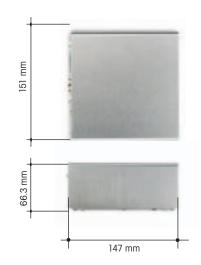
Nominal		205DU	204
Maximum capacity	nom.	220g	220g
Readability	nom.	0.1mg	0.1mg
Maximum capacity, fine range	nom.	111g	_
Readability, fine range	nom.	0.01mg	_
Measurement properties properties apply to environment	conditions		
Specification temperature		10 30 °C	10 30 °C
Specification humidity		20 80 %rH	20 80 %rH
Limit values			
Repeatability (measured at)		0.1mg (200g)	0.1mg (200g)
Repeatability at low load (measured at)		_	0.07mg (10g)
Repeatability, fine range (measured at)		0.04mg (100g)	_
Repeatability at low load, fine range (measured at)		0.03mg (10g)	_
Linearity		0.25mg	0.3mg
Eccentric load deviation as per OIML R76 (measured at)		0.3mg (100g)	0.4mg (100g)
Sensitivity offset		3 x 10 ⁻⁶ • Rnt	4 x 10 ⁻⁶ • Rnt
Sensitivity temperature drift 1)		1.5 x 10 ⁻⁶ /°C • Rnt	1.5 x 10 ⁻⁶ /°C • Rnt
Sensitivity stability ²⁾		2.5 x 10 ⁻⁶ /a • Rnt	2.5 x 10 ⁻⁶ /a • Rnt
Typical values			
Repeatability 1)	typ.	0.04mg + 1.2 x 10 ⁻⁷ • Rgr	0.05mg + 1.5 x 10 ⁻⁷ • Rgr
Repeatability, fine range 1)	typ.	0.025mg + 5 x 10 ⁻⁸ • Rgr	_
Differential linearity deviation	typ.	2 x 10 ⁻¹¹ g • Rnt	5 x 10 ⁻¹¹ g • Rnt
Differential eccentric load deviation	typ.	8 x 10–7 • Rnt	1 x 10 ⁻⁶ • Rnt
Sensitivity offset 2)	typ.	7 x 10–7 • Rnt	1 x 10 ⁻⁶ • Rnt
Minimum weight (according to USP) 1) 3)	typ.	120mg + 3.6 x 10 ⁻⁴ • Rgr	150mg + 4.5 x 10 ⁻⁴ • Rgr
Minimum weight (according to USP), fine range 1) 3)	typ.	75mg + 1.5 x 10 ⁻⁴ • Rgr	-
Minimum weight (@ U=1%, 2 sd) 1)	typ.	8mg + 2.4 x 10 ⁻⁵ • Rgr	10mg + 3 x 10 ⁻⁵ • Rgr
Minimum weight (@ U=1%, 2 sd), fine range 1) 3)	typ.	5mg + 1 x 10 ⁻⁵ • Rgr	_
Dynamics			
Settling time	typ.	2s	2s
Settling time, fine range	typ.	3s	-
Interface update rate	max.	23/s	23/s
Interface update rate in "FastHost" mode	max.	92/s	92/s
Weighing time (including time for opening and closing of standard draft shield)		5s/3s	3s
General data	-	.	•
Protection class		Weighing module in operation: IP30 Weighing module with snapped on plastic cover: IP45 Electronic unit: IP40 SWT and PWT terminal: IP54	
Weight of weighing module with standard weighing pan	nom.	3.415kg (WXS) / 3.412kg (W	XT)

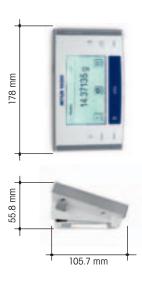
Rgr = Gross weight Rnt = Net weight (of sample) sd = Standard deviation a = Year (annum)

Temperature range 10 ... 30 °C
 Stability of sensitivity as from first installation with FACT
 The MinWeigh weight can be improved using the following measures:
 Select suitable weighing parameters
 Select a better location
 Use smaller tare containers

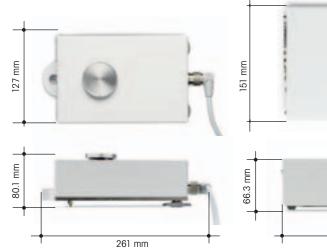
WXS component version

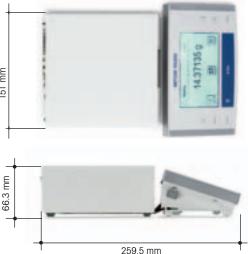


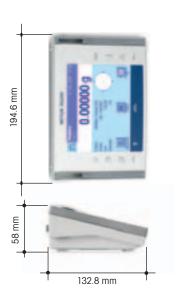




WXT benchtop version







Standard equipment and functionalities

All WX weighing modules

- Overload protection for vertical and horizontal loads
- Additive preload up to max. 19 g (78 g on adapter weighing pan)
- FACT, fully automated temperature-controlled internal adjustment
- Integrated RS232 interface
- Slot for second interface (7 options)
- 2 Aux connections for METTLER TOLEDO ErgoSens or external sensing device
- Mechanical interface for weigh-below adapter
- Versatile weighing parameter configuration
- Freely adjustable stability criteria
- Power supply with AC/DC adapter, incl. country-specific power cable
- Standard weighing pan 50 mm
- Adapter weighing pan 36 mm with 3xM3 threaded holes
- Production certificate with module-specific measuring values
- Comprehensive documentation, including PC software

WXS component version

- Electronic unit load cell connector cable, 1.5 m/5ft
- Terminal electronic unit connector cable, 2 m/6.5ft
- Mounting bracket for electronic unit (including DIN clip)

WXT benchtop version

- Electronic unit load cell connector cable, 0.5 m /1.6ft
- Terminal electronic unit connector cable, 0.6 m /1.9ft
- Terminal holder for connection with electronic unit (WXTS)
- Built-in precision level bubble

WX-specific accessories

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: For connecting to an Ethernet network	11132515
USB RS232C converter	11103691
¹) Only in conjunction with terminal External communication modules	
Profibus module	42102809
DeviceNet module	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/3.1ff	11132129

Miscellaneous

Weighing pan ø 85mm	00238762
Weighing below adapter (for weighing suspended loads)	11121081
Note: An authorized service technician must perform the installation	
Mounting bracket for WXS electronic unit, including DIN clip and mounting	11121254
screws	l
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 glass evaporation trap	11138010

$\begin{tabular}{ll} \textbf{Package solutions} - \textbf{custom-tailored} \\ \textbf{and practical.} \end{tabular}$

Terminal – electronic unit connector cable, 6-pin: 2 m/6.5ft

Our trend-setting, sustainable package solutions are the result of carefully matched products and services. Both belong together and supplement one another, for your benefit. As the market leader, METTLER TOLEDO also offers individually customized solutions. In

addition to professional consulting and comprehensive engineering as the basis of developing custom-tailored solutions, our global sales and service network guarantees individual customer support and ensures the long-term value of the weighing modules installed by METTLER TOLEDO.

www.mt.com/wx .

11132133

More information

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