

Designed for Automation

Flexibility for Complex Solutions



Automated

Packaged in a compact and rugged stainless steel housing, the WXS weighing module introduces state-of-the-art technology to your automated process.



Customized

The adapter weighing pan allows for customer-tailored system assemblies with an additional pre-load of up to 78 g.



Flexible

Thanks to the cable length of up to 5 m and the supplied DIN rail clips, the electronic unit can be attached almost anywhere.



Also Available Without Terminal

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. The application decides whether and how a terminal will be used.



WXS

High-Precision Weigh Modules

The sum of all advantages

- Avoid cross-contamination
- Increases speed and accuracy of automated processes
- Reduces cycle times
- High availability
- Minimum mounting space
- Fits to plenty connectivity concepts
- Specific accessories

Model Specific Weighing Data

Type information	WXS205	WXS205DU	WXS204
Nominal capacity (nominal load)	200 g	200 g	200 g
Maximum capacity	220 g	220 g	220 g
Maximum capacity, fine range	-	111 g	-
Maximum preload ^{M1)}	78 g	78 g	78 g
Readability	0.01 mg	0.1 mg	0.1 mg
Readability, fine range	-	0.01 mg	-
Internal adjustment	✓	✓	✓

Limit Values ^{M2)}

Repeatability (σ) (nominal load) \leq ^{M3)}	0.04 mg	0.07 mg	0.1 mg
Linearity deviation \leq	0.15 mg	0.2 mg	0.25 mg
Repeatability, fine range (σ) \leq ^{M3)}	-	0.03 mg (100 g)	-
Eccentric load deviation (test load) \leq	0.3 mg (100 g)	0.3 mg (100 g)	0.4 mg (100 g)
Sensitivity temperature drift \leq ^{M4)}	0.3 mg/°C	0.3 mg/°C	0.3 mg/°C

Typical Values ^{M5)}

Repeatability (σ) (nominal load) \leq	0.031 mg	0.064 mg	0.08 mg
Repeatability, fine range (σ) \leq	-	0.03 mg	-
Settling time \leq	3 s	2 s	2 s

Ambient Conditions

Compensated temperature range ^{M6)}	10 °C to 30 °C
Operating temperature range	5 °C to 40 °C
Storage temperature range	-20 °C to 70 °C
Relative air humidity range ^{M6)}	20% to 80%
Warm-up time after power-on ^{M6)}	60 minutes

^{M1)} Maximum preload on top of "preload reference" weighing pan to maintain maximum capacity. ^{M2)} Applicable for stationary conditions within compensated temperature and relative air humidity range. ^{M3)} σ = standard deviation (99.7 % of weighing results within $\pm 3 \sigma$). ^{M4)} Weighing tests according to OIML R76 A.5.3 at stationary conditions. ^{M5)} Applicable for stable environmental conditions and optimal filter settings. ^{M6)} Condition to meet the specified limit values.

General Data

Electrical connection

Power supply	Input: 100–240 V AC, 50/60 Hz, 0.5 A; Output: 12 V DC, 2 A
Communication interface	RS232 Ethernet (optional)
Maximum weight update rate	92 values/s and 23 values/s ⁶¹⁾

IP protection

Module during weighing	IP30
Module during cleaning ⁶²⁾	IP45
Electronic unit	IP40

Materials

Weighing pan/platform	Stainless steel (1.4404 / 316L); plastic
Weigh module housing	Stainless steel (1.4404 / 316L)
Electronic unit housing	Stainless steel (1.4404 / 316L)

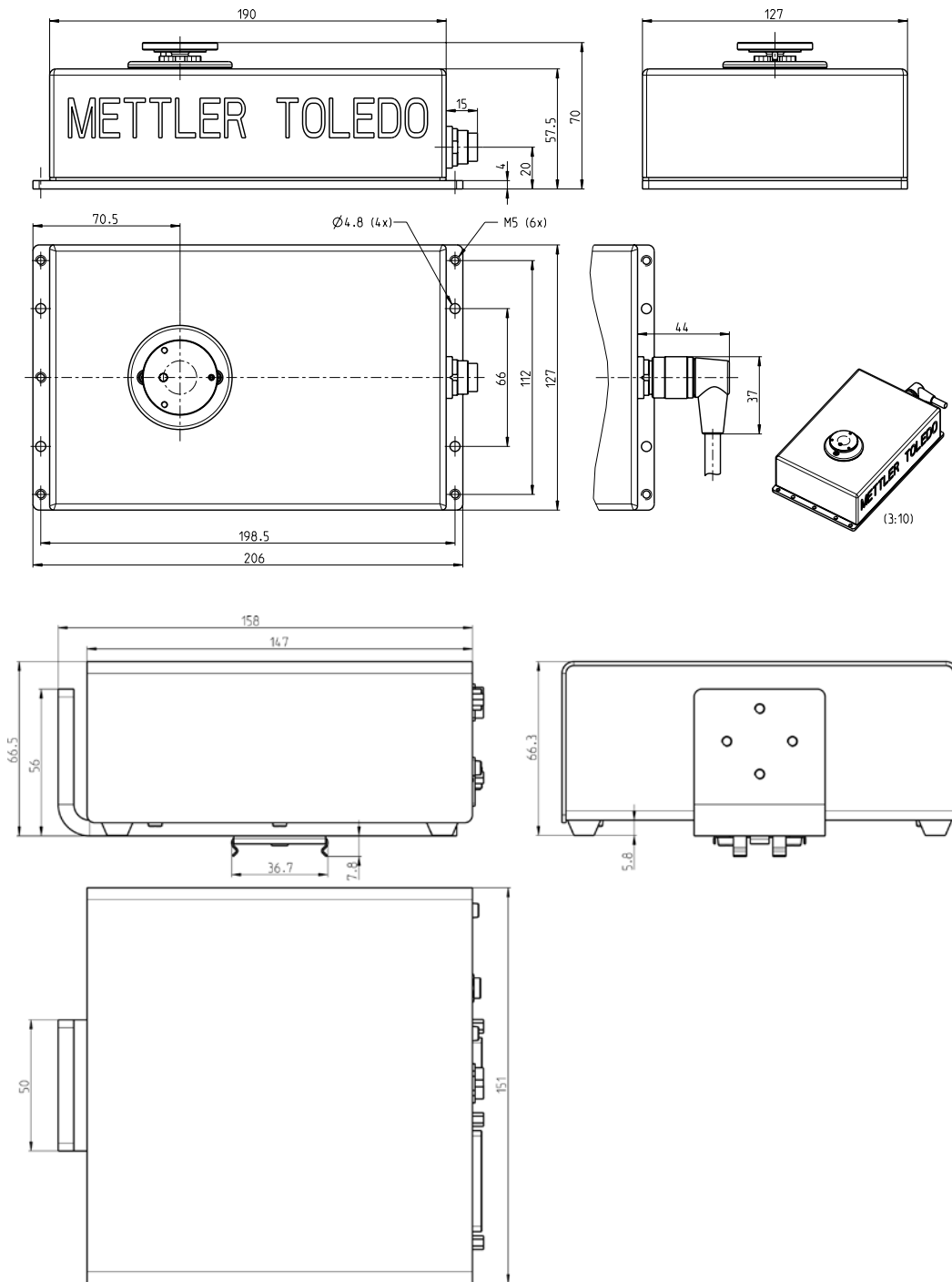
⁶¹⁾ In combination with a terminal. ⁶²⁾ With plastic cover mounted.

Scope of Delivery

Item	Description	Item Number
WXS	Load cell	
Weighing pan	$\varnothing = 50$ mm, without threaded holes, approx. 68.5 g	
Adapter weighing pan (preload reference)	$\varnothing = 36$ mm, with threaded holes, approx. 10 g	
Electronic unit	Including mounting bracket and DIN clip	
Cable WX 90/1.5	Connection cable weigh module to electronic unit (90°/1.5 m)	111 214 40
Power supply	Including country specific power cable	
Production certificate		
Declaration of conformity		
Quick guide		
Terminal SWT ⁶¹⁾	Monochrome touch screen display (including 0.575 m and 2.0 m terminal cables, protective cover)	111 210 57
Cable terminal ⁶¹⁾	2 m	111 321 33

⁶¹⁾ Only with WXSS versions.

Drawings (mm)



Typical Configuration



■ WXS

■ Cable WX

■ Electronic unit

● Terminal SWT
incl. cable




● Terminal PWT

■ Terminal SWT
incl. cable
(included in
WXSS orders)

■ Scope of delivery

● Accessories from METTLER TOLEDO

Accessories

Item	Description	Item number	Picture
Cable WX 90/0.5	Connection cable weigh module to electronic unit (90°/0.5 m)	111 214 42	
Cable WX 90/5	Connection cable weigh module to electronic unit (90°/5 m)	111 214 41	
Terminal PWT	Color touch screen display, multi-user functionalities	111 210 58	
Cable terminal	0.575 m	111 321 24	
Cable terminal	0.945 m	111 321 29	
Interface second RS232C	Additional RS232C interface in electronic unit	111 325 00	
Interface Ethernet	Additional Ethernet interface in electronic unit	111 325 15	
Weighing below adapter	Adapter for below weighing applications	111 210 81	
Draft shield	Glass draft shield with sliding door	111 210 71	

Order Information

WXS Model	205		205DU		204	
	Standard	SI Units *	Standard	SI Units *	Standard	SI Units *
No terminal	WXS205S/15 111 210 03	WXS205SV/15 111 213 03	WXS205SDU/15 111 210 08	WXS205SDUV/15 111 213 08	WXS204S/15 111 210 23	WXS204SV/15 111 213 23
Monochrome terminal SWT	WXSS205 111 210 01	WXSS205V 111 213 01	WXSS205DU 111 210 06	WXSS205DUV 111 213 06	WXSS204 111 210 21	WXSS204V 111 213 21
EU legal-for-trade version. With SWT terminal.	WXSS205/M 111 212 61		WXSS205DU/M 111 212 66		WXSS204/M 111 212 81	

* Only SI units are displayed: g, mg, ct

www.mt.com/ind-WXS

For more information

METTLER TOLEDO Group

Industrial Division

Local contact: www.mt.com/contacts



Subject to technical changes

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