

Technical Data X-Platform

Technical Data	X204S*	X404S	X404SDR
Maximum capacity	210g	410g	410g
Maximum capacity, fine range	-	-	80g
Readability	0.1mg	0.1mg	1mg
Readability, fine range	-	-	0.1mg
Repeatability (sd)	0.2mg	0.1mg	0.6mg
Repeatability, fine range (sd)	-	-	0.1mg
Linearity	0.2mg	0.2mg	0.6mg
Stabilization time	2s	2s	2s
Usable height of draft shield (mm)	248	248	248
Platform dimensions (WxDxH mm)	214x260x363	214x260x363	214x260x363
Weighing pan dimensions (mm)	∅90	∅90	∅90
Typical minimum weight ** (acc. USP)	360mg	180mg	180mg
Typical minimum weight ** (1%, 2sd)	24mg	12mg	12mg

Technical Data	X203S	X603S*	X603SDR	X1203S	X2003SDR	X5003SDR*
Maximum capacity	210g	610g	610g	1210g	2100g	5100g
Maximum capacity, fine range	-	-	120g	-	500g	1000g
Readability	1mg	1mg	10mg	1mg	10mg	10mg
Readability, fine range	-	-	1mg	-	1mg	1mg
Repeatability (sd)	0.9mg	0.9mg	4mg	0.8mg	6mg	6mg
Repeatability, fine range (sd)	-	-	1mg	-	1mg	1mg
Linearity	2mg	2mg	10mg	2mg	6mg	6mg
Stabilization time	1.5s	1.5s	1.5s	1.5s	2s	2s
Usable height of draft shield (mm)175	175	175	175	175	175	
Platform dimensions (WxDxH mm)	194x257x96	194x257x96	194x257x96	194x257x96	194x257x96	194x257x96
Weighing pan dimensions (WxD mm)	127x127	127x127	127x127	127x127	127x127	127x127
Typical minimum weight ** (acc. USP)	1.5g	1.5g	6g	1.2g	1.8g	
Typical minimum weight ** (1%, 2sd)	100mg	100mg	400mg	80mg	120mg	120mg

Technical Data	X1202S	X2002S	X4002S*	X6002S*	X6002SDR	X8002S	X10002S	X10002SDR
Maximum capacity	1210g	2100g	4100g	6100g	6100g	8100g	10100g	10100g
Maximum capacity, fine range	-	-	-	-	1.2kg	-	-	2kg
Readability	10mg	10mg	0.01g	0.01g	0.1g	10mg	10mg	0.1g
Readability, fine range	-	-	-	-	10mg	-	-	10mg
Repeatability (sd)	8mg	8mg	8mg	8mg	40mg	8mg	8mg	60mg
Repeatability, fine range (sd)	-	-	-	-	8mg	-	-	8mg
Linearity	20mg	20mg	20mg	20mg	0.1g	20mg	20mg	50mg
Stabilization time	1.2s	1.2s	1.2s	1.2s	1.5s	1.5s	1.5s	1.5s
Platform dimensions (WxDxH mm)	194x257x96	194x257x96	194x257x96	194x257x96	194x257x96	194x257x96	194x257x96	194x257x96
Weighing pan dimensions (WxD mm)	170x205	170x205	170x205	170x205	170x205	170x205	170x205	170x205
Typical minimum weight ** (acc. USP)	12g	12g	12g	12g	12g	12g	12g	12g
Typical minimum weight ** (1%, 2sd)	800mg	800mg	800mg	800mg	800mg	800mg	800mg	800mg

Technical Data	X4001S*	X6001S	X8001S	X10001S
Maximum capacity	4100g	6100g	8100g	10100g
Readability	0.1g	0.1g	0.1g	0.1g
Repeatability (sd)	80mg	80mg	80mg	80mg
Linearity	60mg	60mg	0.1g	0.1g
Stabilization time	0.8s	0.8s	1s	1s
Platform dimensions (WxDxH mm)	194x257x96	194x257x96	194x257x96	194x257x96
Weighing pan dimensions (WxD mm)	190x223	190x223	190x223	190x223
Typical minimum weight ** (acc. USP)	120g	120g	120g	120g
Typical minimum weight ** (1%, 2sd)	8g	8g	8g	8g

Technical Data	X12002MDR	X8001M	X12001M*	X20001M	X12000M	X20000M
Maximum capacity	12100g	8100g	12100g	20100g	12100g	20100g
Maximum capacity, fine range	2.4kg	-	-	-	-	-
Readability	0.1g	0.1g	0.1g	0.1g	1g	1g
Readability, fine range	10mg	-	-	-	-	-
Repeatability (sd)	60mg	80mg	80mg	80mg	0.6g	0.6g
Repeatability, fine range (sd)	10mg	-	-	-	-	-
Linearity	60mg	0.1g	0.1g	0.2g	0.6g	0.6g
Stabilization time	1.8s	1.2s	1.2s	1.2s	1s	1s
Platform dimensions (WxDxH mm)	240x278x110	240x278x110	240x278x110	240x278x110	240x278x110	240x278x110
Weighing pan dimensions (WxD mm)	237x237	237x237	237x237	237x237	237x237	237x237
Typical minimum weight ** (acc. USP)	18g	120g	120g	120g	1.2kg	1.2kg
Typical minimum weight ** (1%, 2sd)	1.2g	8g	8g	8g	80g	80g

Technical Data	X16001L	X32001L*	X64001L*	X32000L
Maximum capacity	16100kg	32100g	64100g	32100kg
Readability	0.1g	0.1g	0.1g	1g
Repeatability (sd)	0.08g	0.08g	0.1g	0.6g
Linearity	0.2g	300mg	500mg	0.6g
Settling time	1.5s	1.5s	1.8s	1.2s
Platform dimensions (WxDxH mm)	360x280x130	360x280x130	360x280x130	360x280x130
Weighing pan dimensions (WxD mm)	280x360	280x360	280x360	280x360
Typical minimum weight ** (acc. USP)	120g	120g	120g	1200g
Typical minimum weight ** (1%, 2sd)	8g	8g	8g	80g

* also available in Ex Zone 2

** Value will depend on the balance settings, the environment and the tare weight.

Technical Data Industrial Terminals



Terminal family	IND429/439/449		
	IND425/435/445	IND439check	IND449check+
Housing material	Aluminium	Stainless steel	Stainless steel
IP Protection	IP65	IP69K	IP69K
Hygienic design	-	acc. to EHEDG / NSF	acc. to EHEDG / NSF
Balance connections	up to 2	up to 2	up to 4
Max. number of X platforms	1	1	4
Max. number of data interfaces	2	2	9
RS232	Standard	Standard	Standard
RS422 / RS485	Optional	Optional	Optional
USB / Ethernet	Optional	Optional	Optional
Wireless LAN	-	Optional	Optional
Profibus	-	-	Optional
Digital I/O	Optional	Optional	Optional
AC Power supply	Standard	Standard	Standard
Battery operation	Optional	Optional	-
Software application packages:	Basic weighing	Basic weighing	Basic weighing
	Counting	Counting	Counting
	-	Checkweighing	Checkweighing
	-	-	Formulation
	-	-	Filling
	-	-	Batching
	-	-	Totalizing
Hazardous locations *	-	-	Yes
Display innovations	-	colorWeight®	Big Weight®
RS232 cable for X platform connection	P/N	21252588	22006795
		22006795	22006795

*IND terminal and X-Balance combination suitable for Category 3G, hazardous locations

More detailed information is available in the datasheets of the individual terminal families

www.mt.com/x-ind

For more information

Platforms and Terminals



Excellence X-Platforms and Industrial terminals.

The perfect combination for highest accuracy in industrial applications

Tailored Solutions
For Precise Applications

METTLER TOLEDO

Mettler-Toledo AG
Laboratory & Weighing Technologies
Im Langacher
CH-8606 Greifensee
Tel. +41-44-944 22 11, Fax +41-44-944 30 60

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X-Platforms and Industrial Terminals The Perfect Match



Find the right solution

In a pharmaceutical dispensing room where formulations are made, precise weighing is crucial to the effectiveness of your preparations. Our tailored solutions, combining the high precision of the X-Platforms and the flexibility of the IND terminals, allow for seamless integration into your existing network. Where exact amounts count!



Use the right reference

Piece counting is an essential application in several industry environments including production, stores or dispatch. Thanks to the counting application, the IND Terminal offers an intelligent way to monitor your processes. Combined with the adequate precision of the Excellence X-Platform, even the smallest pieces can be counted with absolute reliability!



Meet the right tone

Precise weighing is essential for many processes. Whether you are producing paints for cars, dyes for textile fabrics, pigments or coatings, the precise quantity of the different ingredients is important to achieve the right colour tone! An incredible spectrum of weighing ranges and readability can be covered with the IND-Terminals and the X-Platforms. Choose your capacity and with readability starting at 0.1 mg – nearly everything is possible.

Industrial Terminals to Visualize Weighing Processes

IND-Terminals support the connection to an X-Platform

The connection of an X-Platform to an IND-Terminal is as easy as you can imagine. All the application functionality of an IND-Terminal is now available with an X-Platform. Additionally, the calibration, test or filter setting of the X-Platform can be done via an IND-Terminal. The IND690 and all the different versions of the IND425, 435, 445, 429, 439 and 449 support the X-Platform connection. This includes category 3 versions for hazardous locations (IND690xx), the dedicated checkweighers with colorWeight® technology (IND439check and IND449check+) and all the different application Pacs of the IND690 family. All configurations are weight and measures approved!



IND4x5 Weighing Terminals

- 3 application levels, from simple weighing to easy to use piece counting.
- X-platform connection for high precision weighing and counting
- Possibility of combining the X-platform with a high capacity scale (2-scale system)
- Robust aluminum enclosure
- IP65 protected

IND4x9 Weighing Terminals

- 5 application levels. Simple weighing, counting, checkweighing.
- X-platform connection for high precision checkweighing
- Combination of X-platform with analog or digital (IDNet) industrial bases possible.
- Versions with colorWeight® technology
- Easy-to-clean stainless steel enclosure
- IP69k protected

IND690 Weighing Terminal

- Software packages support 9 different applications, e.g. counting, filling, formulation etc.
- Up to 4 scales can be connected with any combination of X-platform, analog or digital (IDNet) platforms.
- Bright display with 35mm character size
- Easy-to-clean stainless steel enclosure
- IP69k protected
- ATEX Zone 2 version for hazardous areas, (category 3G)



Excellence X-Platform The Fast, Precise and Safe Weighing Sensor

Available in three platform size (S, M and L), with a capacity from 210g to 64 kg and a readability from 0.1 mg to 1g, the X-Platform offers optimal capacity and the best sized weighing pans for every workplace.

The X-Platform is designed for high precision and high performance in weighing under special conditions, such as in robot-automated systems, for integration in manufacturing equipment or as a reference balance in counting applications. The X-Platforms can also be used as a stand alone unit and communicate via Ethernet or with the RS232 interface for easy system integration.



S

S-Platform:
210g – 10kg Capacity
0.1mg – 0.1g Readability

M

M-Platform:
8kg – 20kg Capacity
0.01g – 1g Readability

L

L-Platform:
16kg – 64kg Capacity
0.1g – 1g Readability



MonoBloc^{HighSpeed} technology
For peak weighing performance



Reliability
For smooth daily operation.
Built of solid metal, resistant to chemicals



FACT
Fully automatic internal adjustment



IP54 in use
Protection against dust and water



Connectivity
RS232 built-in, slot for second interface (RS232, Ethernet & LocalCan)



ATEX Zone 2
X-platforms can be approved for hazardous area zone 2 (category 3G)