

Hazardous platforms approval

Version 1.0



METTLER TOLEDO

ServiceXXL

Tailored Services

Congratulations on choosing the quality and precision of METTLER TOLEDO. Proper use according to these instructions and regular calibration and maintenance by our factory-trained service team ensure dependable and accurate operation, protecting your investment. Contact us about a ServiceXXL agreement tailored to your needs and budget.

We invite you to register your product at www.mt.com/productregistration so we can contact you about enhancements, updates and important notifications concerning your METTLER TOLEDO contact.

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WMH Ex Line Bench/floor scales



Technical data of the measuring cell

Ignition protection type	II 2G EEx ib IIC T4 II 2D IP66/67 T55°C
IP protection type	IP66/67
FM approval	Class I, II, III, Division 1, Groups A–G

Kx – T4

Table and stand scales for hazardous areas



KA15s-T4 / KA32s-T4

KB60..x-T4 / KCC150..x-T4 / KCC300..x-T4

Technical data of the measuring cell

Ignition protection type	II 2G EEx ib IIC T4 II 2D IP66/67 T55°C
IP protection type	IP66/67
FM approval	Class I, II, III, Division 1, Groups A–G

K Line

Table and stand scales



KA3s / KA6s / KA15s / KA32s
KB60 / KCC150 / KCC300

Technical data of the measuring cell

TBrick 6, TBrick 15, TBrick 32 measuring cells					
Ignition protection type	II 3G EEx nA II C T6 $-10^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ II 3D IP67 T70°C The following safety-related variables must be ensured by the connected weighing terminal:				
	<table border="1"> <tr> <td>Supply circuit</td> <td>$U_{\text{max}} \leq 20 \text{ V DC}$</td> </tr> <tr> <td>Interface circuit</td> <td> $U_{\text{max, CL}} \leq 27 \text{ V DC}$ $I_{\text{max, CL}} \leq 30 \text{ mA}$ $U_{\text{max Diff, RS422}} \leq 10 \text{ V DC}$ </td> </tr> </table>	Supply circuit	$U_{\text{max}} \leq 20 \text{ V DC}$	Interface circuit	$U_{\text{max, CL}} \leq 27 \text{ V DC}$ $I_{\text{max, CL}} \leq 30 \text{ mA}$ $U_{\text{max Diff, RS422}} \leq 10 \text{ V DC}$
Supply circuit	$U_{\text{max}} \leq 20 \text{ V DC}$				
Interface circuit	$U_{\text{max, CL}} \leq 27 \text{ V DC}$ $I_{\text{max, CL}} \leq 30 \text{ mA}$ $U_{\text{max Diff, RS422}} \leq 10 \text{ V DC}$				
IP protection type	IP67				
Power consumption	12 V DC \pm 20 %; 125 mA; 1.4 VA				
7.2 Pik 15, K52 measuring cells					
Ignition protection type	II 3G EEx nA II C T4 $+10^{\circ}\text{C} \leq T_a \leq +30^{\circ}\text{C}$				
Power consumption	12 V DC + 10 % / - 15 %; 150 mA; 1.8 VA 32 V DC + 10 % / - 15 %; 100 mA; 3.2 VA				
IP protection type	IP67				

M Line

Table and stand scales



MA15s / MA30s
MB60 / MCC150 / MCC300

Technical data of the measuring cell

Ignition protection type	II 3G Ex nA II T6 $-10^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ II 3D T50°C The following safety-related variables must be ensured by the connected weighing terminal:	
	Supply circuit	$U_{\text{max}} \leq 20 \text{ V DC}$
	Interface circuit	$U_{\text{max, CL}} \leq 27 \text{ V DC}$ $I_{\text{max, CL}} \leq 30 \text{ mA}$
IP protection type	IP67	
Power consumption	12 V DC \pm 20 %; 125 mA; 1.8 VA	

DB & DCC

Stand and floor scales



DB...sTx / DB...sx
DCC...sTx / DCC...sx
DC...sTx
DCS...sTx

Technical data

Ignition protection type	II 2G EEx ia IIC T4 II 2D IP67 T80°C
Digital scale interface (IDNet)	II 2G EEx ia IIC T4 -20°C ≤ Ta ≤ +60°C II 2D IP68 T75°C BVS 03 ATEX E 432

PBA430 & PBA430x

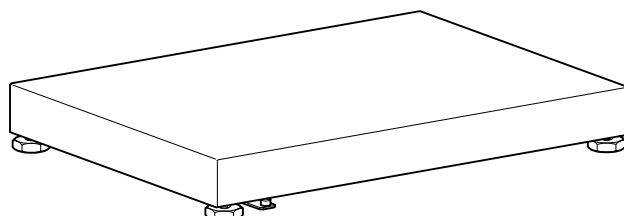
Table and stand scales



Technical data

Weighing cell 708 / 709 measuring cells		
Ignition protection type	II 2G EEx ia IIC T6/T5/T4 $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$ II 2D IP65 T130°C KEMA 04 ATEX 1315X	
IP protection type	IP68/69k	
FM approval	IS Class I, II, III, Division 1, Groups A–G/T4	
Characteristics		
Sensitivity	708-11 kg, 708-22 kg other weighing cells	2.2 mV/V +/- 5 % 2.0 mV/V +/- 5 %
Input resistance	1,100 Ω +/- 50 Ω	
Output resistance	960 Ω +/- 50 Ω	
Supply, max.	15 V	

Terminal box IDNet (optional)	
Ignition protection type	II 3G Ex nA II T4 $-10^{\circ}\text{C} \leq T_a \leq +40^{\circ}\text{C}$ II 3D Ex tD A22 IP67 T75°C BVS 06 ATEX E 098
IP protection type	IP67



PTA459 & PTA459x

Pallet scales



PTA459 & PTA459x

Technical data PTA459 & PTA459x

Load cell	Beam load cell
Ignition protection type	II 2G EEx nA IIC T6 II 2D IP68 T80°C

Electronic housing	Point ADC	Point Ex
Ignition protection type	II 3G Ex nA II T4; Ex nV II T4 TÜV Nord TÜV 99 ATEX 1445	II 2G EEx ia IIC T4 II 2D IP68 T75°C -20°C ≤ Ta ≤ +60°C BVS 03 ATEX E 432
	II 3G/D EEX nA II T4 T+50°C IP68 ASEV 00 EX 0494	
	Analog (T) passive component	

DN Line

Floor/pit scales



Technical data DN Line

Load cell	Beam load cell	Ring load cell
Ignition protection type	II 2G EEx ia IIC T6 II 2D IP68 T80°C	II 2G EEx ia IIC T6...T4 -20°C ≤ T _a +40°C II 2D IP68/66 T70°C

Electronic housing	Point ADC	Point Ex
Ignition protection type	II 3G Ex nA II T4; Ex nV II T4 TÜV Nord TÜV 99 ATEX 1445	II 2G EEx ia IIC T4 II 2D IP68 T75°C -20°C ≤ T _a ≤ +60°C BVS 03 ATEX E 432
	II 3G/D EEX nA II T4 T+50°C IP68 ASEV 00 EX 0494	
	Analog (T) passive component	

PFA574 / PFA575(x) / PFA579(x)

Weighing Platforms



Ignition protection type PFA575(x) / PFA579(x)

Weighing cells	Weighing cell SBH II 2GD T50°C EEx ib IIC T4	
	Weighing cell THC II 2G EEx nA IIC T6 II 2D IP68 T80°C	Weighing cell THC II 2G EEx nA IIC T6 II 2D IP68 T80°C
Analog scale interface	System solution Analog Ex2 II 3G Ex nA II T4 II 3D Ex tD A22 IP65 T75°C BVS 08 ATEX E 063	Analog Ex1 II 2G EEx ia IIC T4 II 2D IP68 T75°C BVS 04 ATEX E221
	System component Analog Ex2 II 3G Ex nA II T4 II 3D Ex tD A22 IP68 T75°C BVS 08 ATEX E 063	
Digital scale interface (IDNet)	Point type system solution II 3G Ex nA II T4 -10°C ≤ Ta ≤ +40°C II 3D Ex tD A22 IP67 T75°C BVS 06 ATEX 098	Point Ex II 2G EEx ia IIC T4 -20°C ≤ Ta ≤ +60°C II 2D IP68 T75°C BVS 03 ATEX E 432

Safety-specific characteristic values for the terminal

The following safety-specific characteristic values have to be ensured by the connected weighing terminal:

Digital scales interface (IDNet, Category 3)		
Supply circuit	$U_{\max} \leq 20 \text{ VDC}$	
Interface current	$U_{\max,a} \leq 27 \text{ VDC}$	$I_{\max,a} \leq 30 \text{ mA}$
IP protection type	IP68/69k	
Analog scales interface (Category 3)		
Supply circuit	$U_{i\max} \leq 20 \text{ VDC}$	$U_o = U_i$
	$P_{i\max} \leq 20 \text{ W}$	$P_o = P_i$

PUA574 / PUA579(x)

Weighing Platforms



Ignition protection type PUA579(x)

Weighing cells	Weighing cell THC II 2G EEx nA IIC T6 II 2D IP68 T80°C	
Analog scale interface	Analog ExI II 2G EEx ia IIC T4 II 2D IP68 T75°C BVS 04 ATEX E221	
Digital scale interface (IDNet)	Point type system solution II 3G Ex nA II T4 -10°C ≤ Ta ≤ +40°C II 3D Ex tD A22 IP67 T75°C BVS 06 ATEX 098	Point Ex II 2G EEx ia IIC T4 -20°C ≤ Ta ≤ +60°C II 2 D IP68 T75°C BVS 03 ATEX E 432

DRF / DSF

Floor/pit scales



DRFx / DSFx

Technical data DRF/DSF (stainless steel)

Weighing cell	
Ignition protection type	II 2G EEx ia IIC T6...T4 -20°C ≤ T _a ≤ +40°C II 2D IP68/66 T70°C

Electronic housing	Point ADC	AWU3/6x
Ignition protection type	II 3G Ex nA II T4; Ex nV II T4 TÜV Nord TÜV 99 ATEX 1445 II 3G/D EEX nA II T4 T+50°C IP68 ASEV 00 EX 0494	DMT 01 ATEX E 065 X II 2G EEx ib IIC T4 II 2D IP68 T75°C -20°C ≤ T _a ≤ +60°C
	Analog (T) passive component	

METTLER TOLEDO products stand for highest quality and precision. Careful handling in accordance with these operating instructions as well as regular maintenance and inspection by our professional customer service ensure the long and reliable function and maintenance of value of your measuring instruments. Our experienced service team will be pleased to inform you about corresponding service agreements or calibration services.

Please register your new product under www.mt.com/productregistration, so that we can inform you about improvements, updates and further important information about your METTLER TOLEDO product.

ServiceXXL

Tailored Services

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