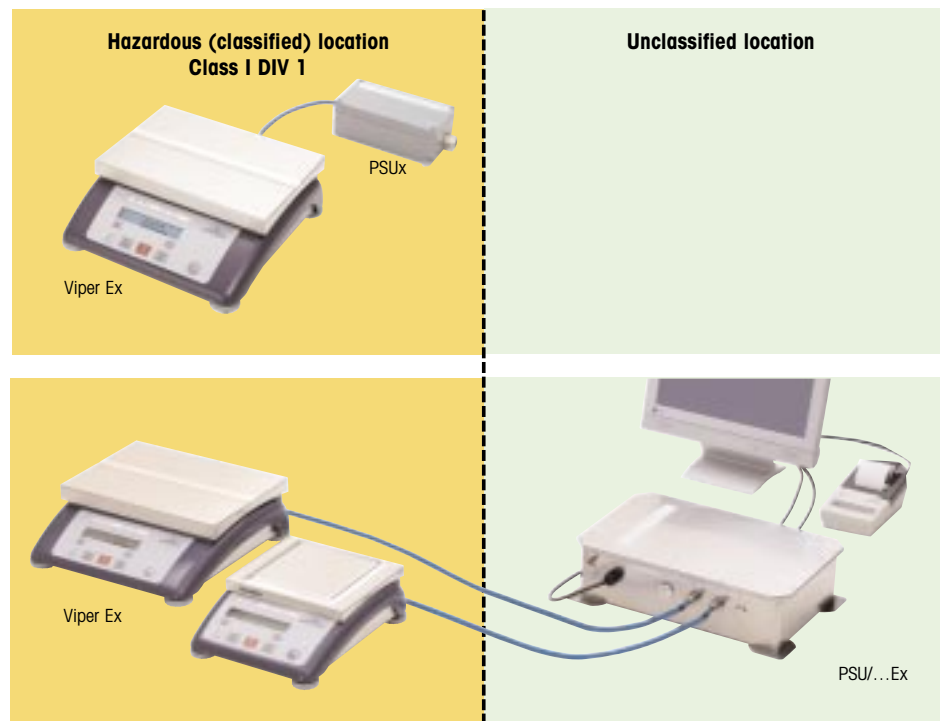




- **Excellent weighing accuracy**
thanks to MonoBloc weighing cell
- **High-resolution mode**
for higher resolution at a keystroke
- **Rugged industrial quality**
thanks to durable cast aluminum housing and chrome-nickel steel weighing pan
- **Large product range**
so you find the right model for your needs
- **Backlit display**
with large, easy-to-read LCD for clear results
- **One standard interface**
enables computers and printers to be connected without problem
- **External AC adapters**
in hazardous and non-hazardous zones guarantee trouble-free power supply

System configurations



Technical data AC adapter

Model	PSU/...Ex	PSUx/230 V	PSUx/120 V
Power supply	100 - 240 V AC, 50/60 Hz	230 V AC, 50 Hz	120 V AC, 60 Hz
IP protection	IP65	IP65	IP65
Temperature range	-10°C ... + 40°C	-10°C ... + 40°C	-10°C ... + 40°C
Protection type			
- CENELEC	II (2) G, D [EEx ib] IIC	II 2 G, D EEx em [ib] IIC T4	-
- FM	AIS Class I, II, III DIV 1 Group A-G	-	Class I, II, III DIV 1 Group A-G
- CSA	-	-	Class I, II, III DIV 1 Group A-G
Power supply cable (ft/m)	7.9/2.4 (M16 x 1,5)	6.2/1.9 (M16 x 1,5)	- (1/2" NPT)
Cable for Viper Ex (ft/m)	32.9/10, max. 165/50	16.4/5, max. 165/50	16.4/5, max. 165/50
Dimensions [WxDxH] (inch/mm)	16.9"x 10.7"x 4.7"/426 x 268 x 117	11.1"x 4.8"x 3.4"/278 x 120 x 85	11.1"x 4.8"x 3.4"/278 x 120 x 85
Scale slots	3, max. connectable 3	-	-
Interface slots	3, max. connectable 3	-	-

Sales/Service:



Certified. Developed and produced according to standard ISO9001. Our environmental management system complies with ISO14001.



Conformity. All METTLER TOLEDO products conform to the stringent EU directives.



Also on the Internet. For fast information about our products and services as well as our company, visit <http://www.mt.com>

The intrinsically safe compact scales combine leading-edge technology, user friendliness, and measurement certainty in rugged industrial design.



• 2 sensor technologies
• 5 weighing ranges
• 3 platform sizes



Viper Ex – the hazard free way to precise weighing results

METTLER TOLEDO

Leading-edge technology in rugged industrial design

The intrinsically safe compact scales for DIV 1 hazardous areas not only increase your productivity and measurement certainty but look smart, too.

Viper Ex is a complete product line for the pharmaceutical and chemical industries. Individual models are available with up to 3 different weighing platform sizes and in 5 weighing ranges from 3 to 60 kg.

This makes the product line so comprehensive that it can always offer the right scale for the most varied weighing, formula weighing, or dispensing applications. The Viper Ex line is especially user friendly and has impressive performance for the price. Visible proof is the easy-to-read backlit LC display with character sizes up to 16 mm.

A ruggedly elegant diecast aluminum housing stands up to all the demands of daily industrial use.

This is also reflected in the selection of sensors which are available. A strain-gauge or MonoBloc weighing cell provides the appropriate technology for every field of application.

Providing power to the system components is no problem with the PSU/... Ex or PSUx AC adapters. All modules are also approved to EU directive 94/9/EU (ATEX), Factory Mutual or CSA standards.

A CL data interface and PSU/...Ex AC adapter allow your weighing solution to communicate with computer systems or printers in the non-hazardous area.

Needless to say, the METTLER TOLEDO range offers customer-friendly solutions for this purpose, too. The comprehensive accessories include strip printers, matching connecting cables, and an optional anti-theft device.



Viper Ex MB – MonoBloc inside
Rugged aluminum alloy guarantees highly accurate measurement results for years. Better repeatability and linearity reduce fault and reject rates.



Viper Ex PM/SM – a single-range scale.
Rugged strain-gauge technology provides maximum reliability for everyday industrial use.



The Viper Ex line with strain-gauge technology is ideal for weighing within the production process, whether for filling or checking the target weight. The MonoBloc scales are suitable for all laboratory applications or for quality control: formula weighing, determination of small weight changes in chemical substances, or checking production quality.

Strain-gauge Technology	Viper Ex	PM 3	PM 6	PM12	SM 12	SM 30	SM 60
	Dimensions [WxDxH] (inch/mm)	10.3"x 12.6"x 4.2"/265 x 335 x 100				14.3"x 14.2"x 4.6"/360 x 370 x 115	
Weighing platform (inch/mm)	7.9"x 9.5"/200 x 240				9.5" x 13.8"/240 x 350		
Maximum capacity (lb/kg)	7.5/3	12/6	24/12	24/12	75/30	120/60	
Readability (lb/g)	0.0005/0.2	0.001/0.5	0.002/1	0.002/1	0.005/2	0.01/5	
Readability approved (lb/g)	0.001/0.5	0.002/1	0.004/2	0.004/2	0.01/5	0.02/10	
Repeatability (g)	0.2	0.5	1	1	2	5	
Linearity (g) ¹⁾	±0.2	±0.5	±1	±1	±2	±5	

¹⁾ in temperature range -10...+40°C

MonoBloc Technology	Viper Ex	MB PM 3	MB PM 6	MB SM 12	MB SM 30
	Dimensions [WxDxH] (inch/mm)	10.3"x 12.6"x 4.2"/265 x 335 x 100			14.3"x 14.2"x 4.6"/360 x 370 x 115
Weighing platform (inch/mm)	6.5"x 6.5"/165 x 165	7.9"x 9.5"/200 x 240		9.5"x 13.8"/240 x 350	
Maximum capacity (lb/kg)	6/3	12/6	24/12	60/30	
Readability (lb/g)	0.00002/0.01	0.0002/0.1	0.0002/0.1	0.0002/0.1	
Readability approved (lb/g)	0.0002/0.1	0.002/1	0.002/1	0.002/1	
Repeatability (g)	0.01	0.1	0.1	0.1	
Linearity (g) ¹⁾	±0.02	±0.1	±0.3	±0.3	

¹⁾ in temperature range 10...+30°C



Model	Viper Ex PM/SM	VIPER Ex MB PM/SM
Application	Weighing, taring, data transfer	Weighing, taring, data transfer
Further functions	Dynamic weighing, dispensing mode, change of display accuracy, unit switching, automatic taring, adaption to environmental conditions	Dynamic weighing, dispensing mode, change of display accuracy, unit switching, automatic taring, adaption to environmental conditions
Resolution	Up to 15000 d	Up to 300000 d
Display	Easy-to-read LCD with backlighting (character height 0.6"/16 mm)	Easy-to-read LCD with backlighting (character height 0.6"/16 mm)
Stabilization time	Approx. 1.0 second	Approx. 1.2 second
Keys	Large function keys with action point for standby, zero setting, tare, data transfer	Large function keys with action point for standby, zero setting, tare, data transfer
Equipment	Configurable bidirectional CL data interface	Configurable bidirectional CL data interface
Housing	Diecast aluminum	Diecast aluminum
Weighing pan	Chrome-nickel steel	Chrome-nickel steel
Protection degree	IP43	IP43
Cenelec protection type	II 2 G EEx ib IIC T4	II 2 G EEx ib IIC T4
FM/CSA protection type	Class I DIV 1 Group A, B, C, D	Class I DIV 1 Group A, B, C, D

