

Meeting Your Needs in Every Weigh



Sartorius FCA-X, FC-X, EB-X, PMA-X  
Explosion Proof Scales

**Always...  
Safety First**

# Explosion Proof Scales Class I,II,III, Division 1, Groups A,B,C,D,E,F,G,T4

## Maximum Safety

Meeting the most stringent Factory Mutual and CSA standards for hazardous area operation, Sartorius FCA-X scales will keep your weighing tasks protected and accurate. These intrinsically safe models can be operated with confidence around explosive dusts, liquids and vapors.

Despite their ultra safe design, no user convenience has been overlooked. Options like motorized internal calibration and hazardous area power supplies provide the accuracy and installation ease you'll rarely find in explosion proof scales. The display is backlit for clear viewing even in the dark or low lighted conditions often found in hazardous environments.



## Protection Beyond Safety

At Sartorius safe design equals rugged design. Every FCA-X scale incorporates a stainless steel weighing platform with heavy duty housing construction. Scales are rated IP65-IP67 for dust and water protection. IP67 indicators are sealed to prevent hazardous material from entering the scale housing.

## Maximum Accuracy

Safety has not compromised accuracy. Up to 640,000 steps of external weighing resolution provide the capacity and readability of two traditional scales in one. Further enhancing your weighing procedure are 14 built-in application programs. They allow the user to compound mixtures, count components, check material density and/or collect statistical data directly on the scale. A built-in RS232 interface allows you to transmit data to computers or printers located in the safe area via an optional Zener Barrier.

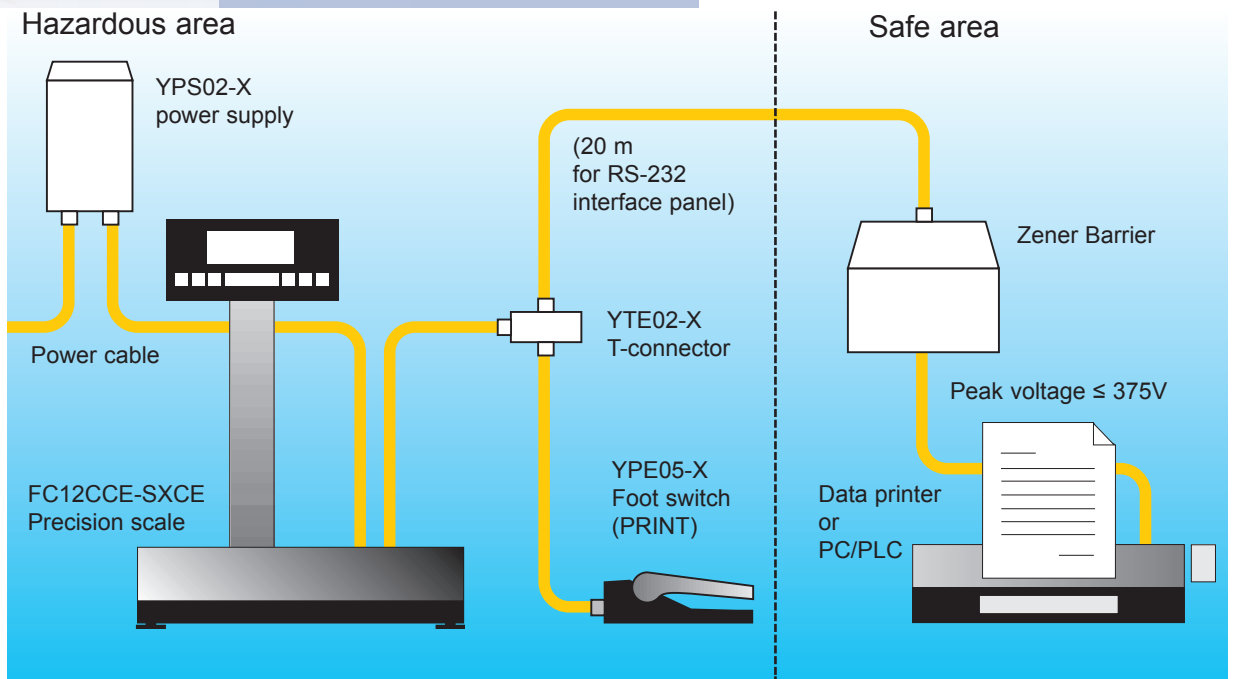
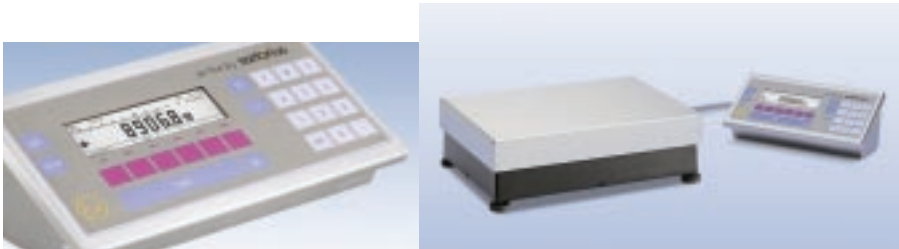
## Why "Intrinsically" Safe?

All Sartorius Ex scales are manufactured to intrinsically safe standards. This simply means scales are incapable of releasing sufficient energy to ignite explosive material in the environment. Intrinsically safe devices are extremely easy to install requiring no special rooms, housing or even a rigid conduit for AC power connection. In addition, there is no disruption to the workflow and costly construction projects can be averted.

Choose between safe area or hazardous area power supplies when ordering your EX scale.

## Selected FCA-X Ranges

- 16 kg (35 lb) x 0.1 g
  - 34 kg (75 lb) x 0.1 g
  - 64 kg (140 lb) x 0.1 g
  - 64 kg (140 lb) x 1.0 g
  - 150 kg (330 lb) x 1.0 g
  - 300 kg (660 lb) x 2.0 g
- Complete specifications shown on back cover



## Explosion Proof Scales Class I, Division 1, Groups A,B,C,D

### Unmatched Readability- FC-X Series (Class 1, Division 1 Groups A,B,C,D)

The premier weighing device used in or out of hazardous environments are clearly the FC-X series scales. With readability's down to one milligram, their standards of performance, flexibility and safety are second to none. The entire FC-X product line encompasses the widest range of explosion proof products offered by Sartorius, from 600 to 64,000 gram capacity scales. Built-in applications are identical to the FCA-X scales.

### Rugged and Reliable- EB-X Series (Class 1, Division 1 Groups A,B,C,D)

Floor or bench, no one else combines value with accurate performance like the Sartorius EB-X series scales. Costing far less than typical hazardous area scales, EB-X will quickly become the everyday production work horse.

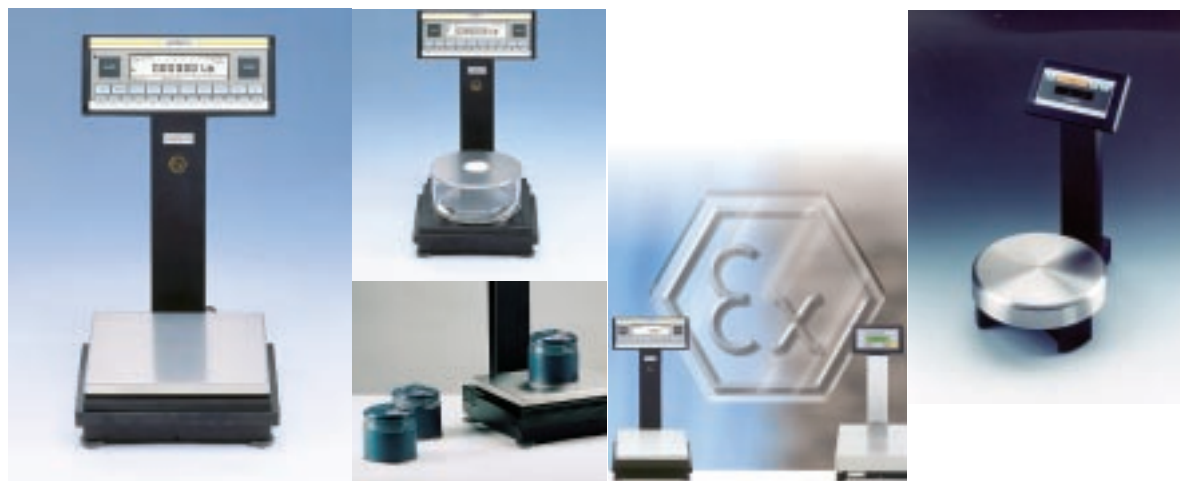
By using the post mounted display and sealed indicator damaging spills are a rare occurrence and can easily be cleaned if they do happen. Toggle quickly between multiple weighing systems and track gross/net values along the way.

Transmit data to the safe area using the optional zener barrier, or calculate data directly on the scale display using the nine built-in application programs.

### Formulation Made Easy- PMA Series (Class 1, Division 1 Groups C,D)

Perfectly designed for quick formulating of hazardous powders and liquids, PMA scales will make short work of a formerly painstaking job. The standard rear post mounted display allows users to pour a sample without ever losing sight of the display. The extremely fast display update speed reduces the chances of an over pour. However, should an over pour take place, the built-in recalculation software tells you exactly how much more of all other components must be added to maintain the proper component ratios.

Simple, accurate and safe. Avoid costly mixing errors and keep your production on schedule with PMA-X.



#### Standard Features

- Intrinsically safe design for easy installation
- Bi-directional RS-232C interface connector (zener barrier required)
- Stainless steel weighing platform
- Backlit LCD displays

#### Standard Applications

- Mass Unit Conversions
- Over pour recalculation software (except EB-IX)
- Gross/Net display (except PMA-X)
- Percentage weighing or weighing by factor
- Adjustable ambient condition setting

#### Selected Accessories

- YDI02-Z  
Zener barrier for safe area interface
- YDPO3-OCE  
Data Printer with Statistics for safe area operation

## Sartorius Explosion Proof Scale Specifications

<b>FCA-X Series—Approved Class I,II,III, Division 1, Groups A,B,C,D,E,F,G,T4</b>							
<b>Model Number</b>	<b>Capacity</b>		<b>Readability</b>		<b>Standard Deviation</b>	<b>Platform Size(in.)</b>	<b>FAX Doc. No.</b>
FCA16EDE-HX	16kg	35lb	0.1g	0.0002 lb	± 0.05g	15.8 x 11.8	20724
FCA34EDE-PX	8/16/34 kg	17/35/75lb	0.1/0.2/0.5g	0.0002/0.0005/0.01lb	±0.05/0.05/0.1g	15.8 x 11.8	20725
FCA34EDE-HX	34kg	75lb	0.1g	0.0002 lb	± 0.1 g	15.8 x 11.8	20726
FCA64EDE-SX	64kg	141lb	1.0g	0.002lb	± 0.3 g	15.8 x 11.8	20727
FCA64EDE-HX	64kg	141lb	0.1g	0.0002lb	± 0.1 g	15.8 x 11.8	20728
FCA150IGG-HX	150kg	330lb	1.0g	0.002 lb	± 1.0g	32 x 24	20724
FCA300IGG-HX	300kg	660lb	2.0g	0.005 lb	± 2.0g	32 x 24	20730
<b>FC-X Series – Approved Class I Division 1, Groups A,B,C,D</b>							
<b>Model Number</b>	<b>Capacity</b>		<b>Readability</b>		<b>Standard Deviation</b>	<b>Platform Size(in.)</b>	<b>FAX Doc. No.</b>
FC06BBE-SX	0.6 kg	1.4 lb	0.001g	0.000002 lb	± 0.001 g	5.1diameter	20710
FC2CCE-SX	2 kg	4.8lb	0.01g	0.00002lb	± 0.01 g	8.5 x 7.9	20712
FC6CCE-HX	6 kg	14 lb	0.01g	0.00002lb	± 0.01 g	8.5 x 7.9	20713
FC6CCE-SX	6 kg	14 lb	0.1g	0.0002 lb	± 0.05 g	8.5 x 7.9	20714
FC12CCE-SX	12 kg	26 lb	0.1g	0.0002 lb	± 0.05 g	8.5 x 7.9	20711
FC16EDE-HX	16 kg	35 lb	0.1g	0.0002 lb	± 0.05 g	15.8 x 11.8	20719
FC34EDE-PX	8/16/34 kg	18/35/75lb	0.1/0.2/0.5 g	0.0002/0.0005/0.001 lb	±0.05/0.05/0.1g	15.8 x 11.8	20720
FC34EDE-HX	34 kg	75lb	0.1 g	0.0002 lb	± 0.1 g	15.8 x 11.8	20721
FC64EDE-SX	64 kg	141 lb	1.0 g	0.002 lb	± 0.3 g	15.8 x 11.8	20722
FC64EDE-HX	64 kg	141 lb	0.1g	0.0002 lb	± 0.1 g	15.8 x 11.8	20723
<b>PMA Series— Approved Class I Division 1, Groups C,D</b>							
<b>Model Number</b>	<b>Capacity</b>		<b>Readability</b>		<b>Standard Deviation</b>	<b>Platform Size(in.)</b>	<b>FAX Doc. No.</b>
PMA7500-X	7.5 kg	17lb	0.1 g	0.0002 lb	± 0.1 g	9.0 diameter	60302
PMA7500D-X	1.0/7.5 kg	2.2/17 lb	0.05/0.1g	0.0001/0.0002 lb	± 0.1 g	9.0 diameter	60306
<b>EB-X Series – Approved Class I Division 1 Groups A,B,C,D</b>							
<b>Model Number</b>	<b>Capacity</b>		<b>Readability</b>		<b>High Res. Mode 2X</b>	<b>Platform Size(in.)</b>	<b>FAX Doc. No.</b>
EB6DCE-IX	3/6 kg	6.6/13.2lb	0.1/0.2g	0.0002/0.0005lb	0.1 g	12.6 x 9.4	20750
EB15DCE-IX	7.5/15kg	16.5/33 lb	0.2/0.5g	0.0005/0.001 lb	0.2 g	12.6 x 9.4	20751
EB35EDE-IX	17.5/35kg	38.5/77 lb	0.5/1.0g	0.001/0.002 lb	0.5 g	15.7 x 11.8	20752
EB60EDE-IX	30/60 kg	66/132 lb	1/2 g	0.002/0.005 lb	1.0 g	15.7 x 11.8	20753
EB60FEG-IX	30/60 kg	66/132 lb	1/2 g	0.002/0.005 lb	1.0 g	19.7 x 15.7	20754
EB150FEG-IX	75/150kg	165/330 lb	2/5 g	0.005/0.01 lb	2.0 g	19.7 x 15.7	20755

**Note: Power Supply Must be Ordered Separately!**

**MCLEAN SCALE Co.**

**LTD.** since 1974

ISO 9001:2000



**Contact Us :**

**Sales and Administration :** [Scott McLean](#)

**Service and Technical Support :** [Jack McLean](#)

Telephone

519-652-9235

FAX

519-652-0940

Postal address

McLean Scale Co Ltd.  
3392 Wonderland Rd. S.  
London, Ontario  
Canada  
N6L 1A8

Electronic mail

Sales: [info@mcleanscale.com](mailto:info@mcleanscale.com)

Service and Technical Support : [service@mcleanscale.com](mailto:service@mcleanscale.com)