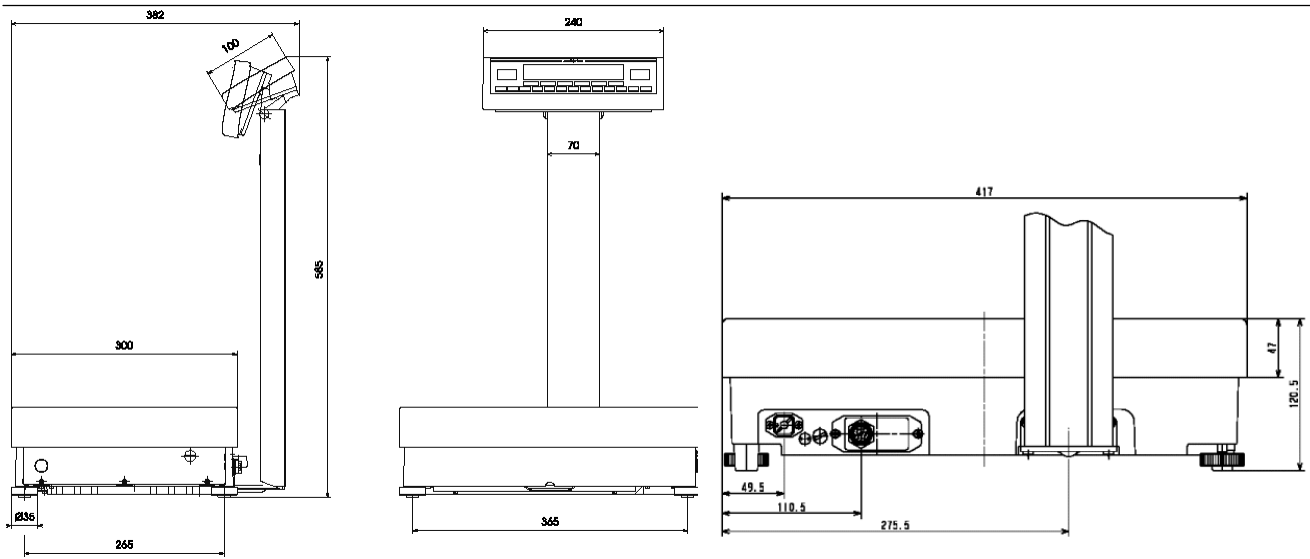




## Factory FC...EDE Ex-Full range scales



- : for use in Ex-Zone 1, 2 (ATEX) | DIV 1, 2 (FM, CSA)
- : built-in calibration weight, isoTEST function
- : high resolution, stable weighing results (time and temperature) thanks to the monolithic weighing system, automatic reference weight optimization
- : practical, combinable applications:
  - level 1:** weighing, weighing in percent, net-total formulation, mass unit conversion, weighing under ambient conditions (animal weighing), calculation
  - level 2:** checkweighing, time-controlled measurement
  - level 3:** totalizing, density determination, recalculation
- : additional RS-485 interface (optional)
- : backlit display
- : ingress protection rate: IP65 (except FC64EDE-HX = IP44)
- : with verification of Intrinsic safety

### General Information

Approval Europe (ATEX)	II 2 G EEx ib IIC T4
Approval USA/CND (FM/CSA)	CL1, DIV1. GPA, B, C, D T4 (CL1, Zone 1, GP IIA, IIB, IIC)
AC power source/power requirements	in safe areas: 110V... 220V, 24V in hazardous Areas: 110V...230V, 24V, accumulator
Ambient temperature range	0 ... +40 °C (273 ... 313 K, 32 °F ... 104 °F)
Operating temperature range	+10 ... +30 °C
Adaptation to ambient conditions and application requirements	by selection of 1 of 4 optimized filter levels
Data output speed (depends on the filter level selected)	0.1 – 0.4 s
Power consumption	maximum 16 VA; average 9 VA
Selectable weight units (models standard)	Grams, kilograms, carats, pounds, ounces, troy ounces, Hong Kong taels, Singapore taels, Taiwanese taels, grains, pennyweights, milligrams parts per pound, Chinese taels, momme, Austrian carats, tola, bath, mesghal
Selectable weight units (verifiable models)	Grams, kilograms
Built-in interface	RS232C
Format	7 Bit ASCII, 1 Startbit, 1 or 2 Stopbits
Parity	odd, even or space
Transmission rates	150 to 19200 Baud
Handshake:	Software or Hardware

## Model-specific information

### Standard models

Model		FC12EDE-PX	FC16EDE-HX	FC34EDE-PX	FC34EDE-HX	FC64EDE-SX	FC64EDE-HX
Readability	g	0.1/0.2	0.1	0.1/0.2/0.5	0.1	1	0.1
Weighing range	kg	6/12	16	8/16/34	34	64	64
Maximum load	kg	130	130	130	130	130	130
Tare range (subtractive)	kg	-12	-16	-34	-34	-64	-64
Max. preload when starting calibration/adjustment (isoTEST) (scale must be zeroed)	kg	ca. 10	ca. 19	ca. 21	ca. 21	ca. 45	ca. 45
Repeatability	≤±g	0.05/0.05	0.05	0.05/0.05/0.1	0.1	0.3	0.1
Linearity	≤±g	0.2	0.2	0.2	0.2	1	0.5
Sensitivity drift within +10 ... +30 °C ±/K-6	≤±/K	2 x 10 <sup>-6</sup>	2 x 10 <sup>-6</sup>	2 x 10 <sup>-6</sup>	2 x 10 <sup>-6</sup>	3 x 10 <sup>-6</sup>	3 x 10 <sup>-6</sup>
Response time (average)	s	1.5	1.5	1.5	1.5	1.5	1.5
External calibration weight (of at least accuracy class...)	g	10 (F1)	10 (F1)	10 (F2)	10 (F1)	10 (F2)	10 (F1)
Platform dimensions (W x D x H)	mm	300x400	300x400	300x400	300x400	300x400	300x400
Ingress protection rate		IP65	IP65	IP65	IP65	IP65	IP44
Net weight, approx.	kg	16	16	16	16	16	16

### Models verified at the Factory by the Manufacturer

Model		FC12EDE-PXCE	FC16EDE-HXCE	FC34EDE-PXCE	FC34EDE-HXCE	FC64EDE-SXCE
Type designation		isoTEST in conjunction with BD BF				
Accuracy class		II	II	II	II	II
Readability d	g	0.1/0.2	0.1	0.1/0.2/0.5	0.1	1
Weighing range	kg	6/12	16	8/16/34	34	64
Verification scale interval e	g	1	1	1	1	10
Min. preload	g	5	5	5	5	50
Maximum load	kg	130	130	130	130	130
Tare range (subtractive)		≤100% of maximum weighing range				
Max. preload when starting calibration/adjustment (isoTEST) (scale must be zeroed)	kg	ca. 10	ca. 19	ca. 21	ca. 21	ca. 45
Application range acc. to CD	g	5-12000	5-16000	5-34000	5-34000	50-64000
Response time (average)	s	1.5	1.5	1.5	1.5	1.5
Platform dimensions (W x D x H)	mm	300 x 400	300 x 400	300 x 400	300 x 400	300 x 400
Ingress protection rate		IP65	IP65	IP65	IP65	IP65
Net weight, approx.	kg	16	16	16	16	16