

Weighing indicator For analogue load cells Model FE430

WIKA data sheet FO 58.08



Applications

- Gravimetric level monitoring (tanks, silos, containers, bioreactors)
- Industrial scales (floor scales, truck scales)
- Basic weighing, checkweighing, piece counting
- Dynamic weighing

Special features

- Multi tare, auto tare, unit change
- Calibration and filter functions
- Programmable status feedback and warning sounds for checkweighing
- Weighing ticket for PC or printer

Description

The high-quality model FE430 weighing indicator can be used universally and is designed for connecting 4- or 6-wire load cells with mV/V output.

Calibration functions, intelligent algorithms and adjustable filters enable precise weighing, even under challenging conditions. The instrument is approved in accordance with OIML R76 with accuracy class III. Thanks to a character size of 25 mm [0.98 in], the weight on the LC display is easy to read.

The programmable status feedback in multiple colours and acoustic warning sounds during checkweighing enable the operator to quickly evaluate the displayed values. For perfect adaptation to the respective application, a wide range of functions, e.g. saving, can be set via the buttons directly on the instrument. After setup, unauthorised adjustments can be prevented by sealing.



Example weighing indicator, model FE430-A1

The instrument is supplied with an adjustable mounting bracket for quick and easy installation on a wall, tripod or table. Models with a power supply of DC 12 V or AC 100 ... 240 V (with cable and power supply unit) are available. A rechargeable battery can be ordered separately.

The RS-232-C output of the instrument can be used to directly connect a computer or printer in order to create weighing tickets in different languages containing the date, time, weighing ticket number, gross, tare and net weight.

Specifications

Overview of versions

Models	Description
FE430-A1	
	Ingress protection IP65 Case material: stainless steel Programmable multicolour display for status feedback Integrated power supply unit for models with AC power supply Screw terminal inside the instrument for sensor connection
FE430-A2	
	Ingress protection IP30 Case material: ABS plastic Unicolour display With external power supply unit, AC/DC adapter With 8-pin microphone plug for soldering the sensor cable
FE430-B	
	Ingress protection IP67 Case material: stainless steel Programmable multicolour display for status feedback Integrated power supply unit for models with AC power supply Screw terminal inside the instrument for sensor connection Lightning protection

Basic information

Case material	
FE430-A1	Stainless steel
FE430-A2	ABS plastic
FE430-B	Stainless steel
Display	LCD with backlighting
Display size	112 x 40 mm [4.41 x 1.57 in]
Character size	25 mm [0.98 in]
Weighing ticket	
Format	Programmable for different weighing modes. The following are possible: date, time, weighing ticket number, gross, tare and net weight.
Date	Programmable as DD.MM.YY, MM.DD.YY or YY.MM.DD
Printout language	English, German, French, Spanish, Turkish
Weight units	g, kg, oz, lb
Functions	
Warning sounds	Various settings can be selected, see operating instructions
Tare	
Filter	
Automatic power-off	Programmable to extend battery life
Display of weight measurement	If enabled, switching from gross to net display at the touch of a button
Piece counting	Sampling quantity or use of the average piece weight (APW)
Memory for piece counting	Up to 100
Sampling quantity for piece counting	10, 20, 30, 50, 100

Basic information	
Memory for checkweighing	Up to 100
Status indication for checkweighing	“Under”, “within the tolerance” and “over” is indicated by changing backlighting or warning sounds
Dynamic weighing	Weighing of dynamic weights using intelligent, dynamic algorithms

Measuring element / measurement principle / sensor element	
Number of load cells	Up to 4 load cells 350 Ω or up to 14 load cells 1,200 Ω (min. 85 Ω)
Input signals	mV/V
Sensor connection	
FE430-A1	Terminal connection for 6-wire sensor with cable cut to length
FE430-A2	Microphone plug
FE430-B	Terminal connection for 6-wire sensor with cable cut to length

Accuracy specifications / repeatability	
Accuracy	OIML R76 class III
Resolution	16,000,000 internal, up to 30,000 display, 6,000 EU type approval

Voltage supply / performance data	
Auxiliary power	
FE430-A1	■ AC 100 ... 240 V, 50/60 Hz ■ DC 12 V, A2 DC 12 V with external AC/DC adapter for AC 100 ... 240 V, 50/60 Hz
FE430-A2	■ DC 12 V with external AC/DC adapter for AC 100 ... 240 V, 50/60 Hz
FE430-B	■ AC 100 ... 240 V, 50/60 Hz ■ DC 12 V, A2 DC 12 V with external AC/DC adapter for AC 100 ... 240 V, 50/60 Hz
Current supply	
FE430-A1	■ 200 mA AC/DC converter (if selected) ■ Internal
FE430-A2	■ External with separate power supply unit, 350 mA
FE430-B	■ 200 mA AC/DC converter (if selected) ■ Internal
Connection type	
FE430-A1	Type F safety plug
FE430-A2	Type C Europlug
FE430-B	Type F safety plug
Rechargeable battery	
Rechargeable battery pack	Lithium-ion rechargeable battery
Current supply	2,000 mAh
Reference conditions	Up to 36 hours continuous operation for a single load cell and 24 hours continuous operation for four load cells 350 Ω

Electrical connection
Interface

Electrical connection	
FE430-A1	RS-232-C, terminal connection
FE430-A2	RS-232, D-Sub connector, 9-pin
FE430-B	RS-232-C, terminal connection
Cable length	2.2 m [86.61 in]

Operating conditions	
Operating temperature	-15 ... +55 °C [5 ... 131 °F] -10 ... +40 °C [14 ... 104 °F] for OIML approval
Relative humidity, condensation	Max. 85 % relative humidity (non-condensing)
Ingress protection	
FE430-A1	IP65
FE430-A2	IP30
FE430-B	IP67

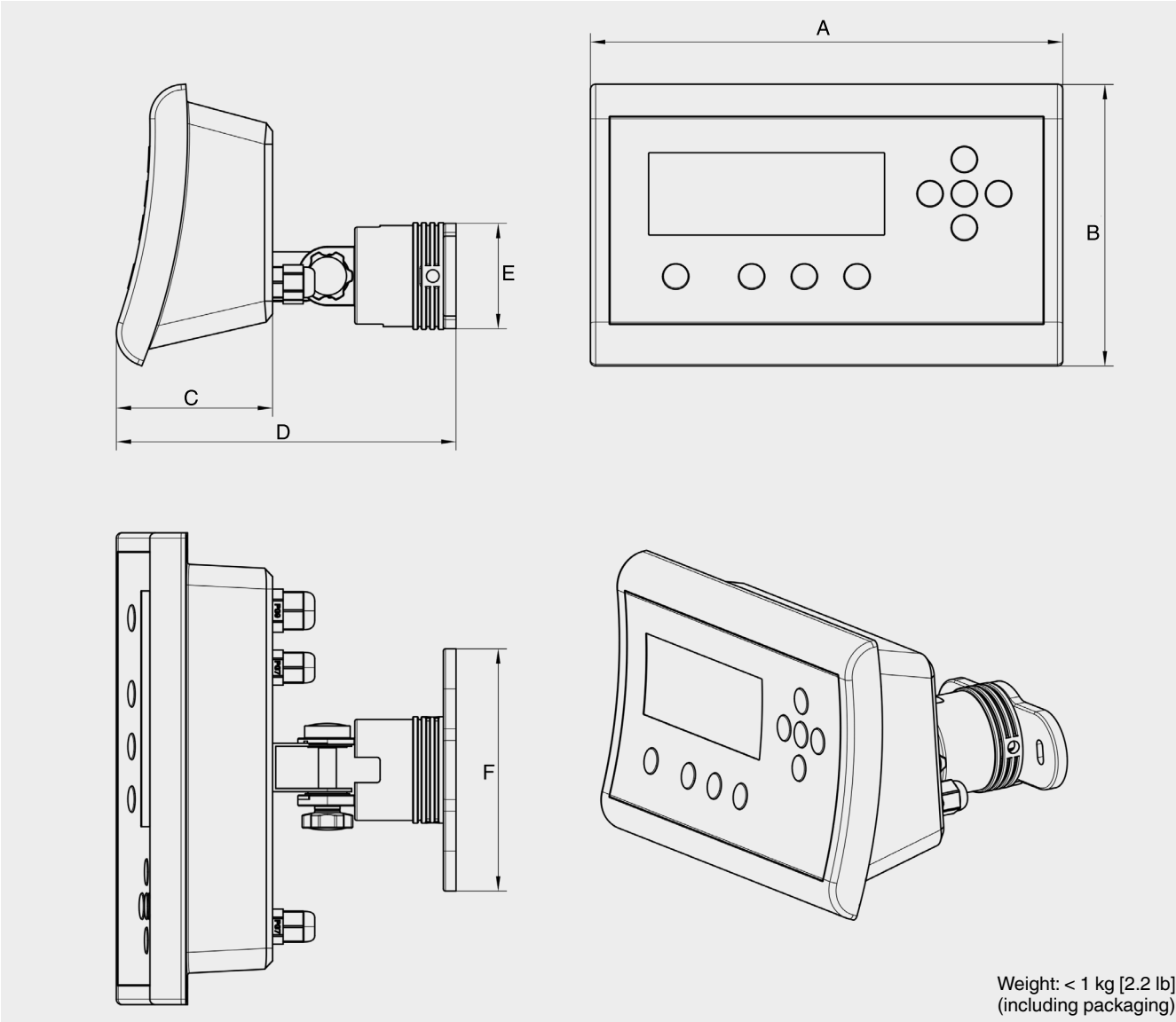
Approvals

Logo	Description	Region
	EU declaration of conformity	European Union
	RoHS directive	
	EMC Directive	

Logo	Description	Region
	OIML OIML R76 International Organization of Legal Metrology	European Union

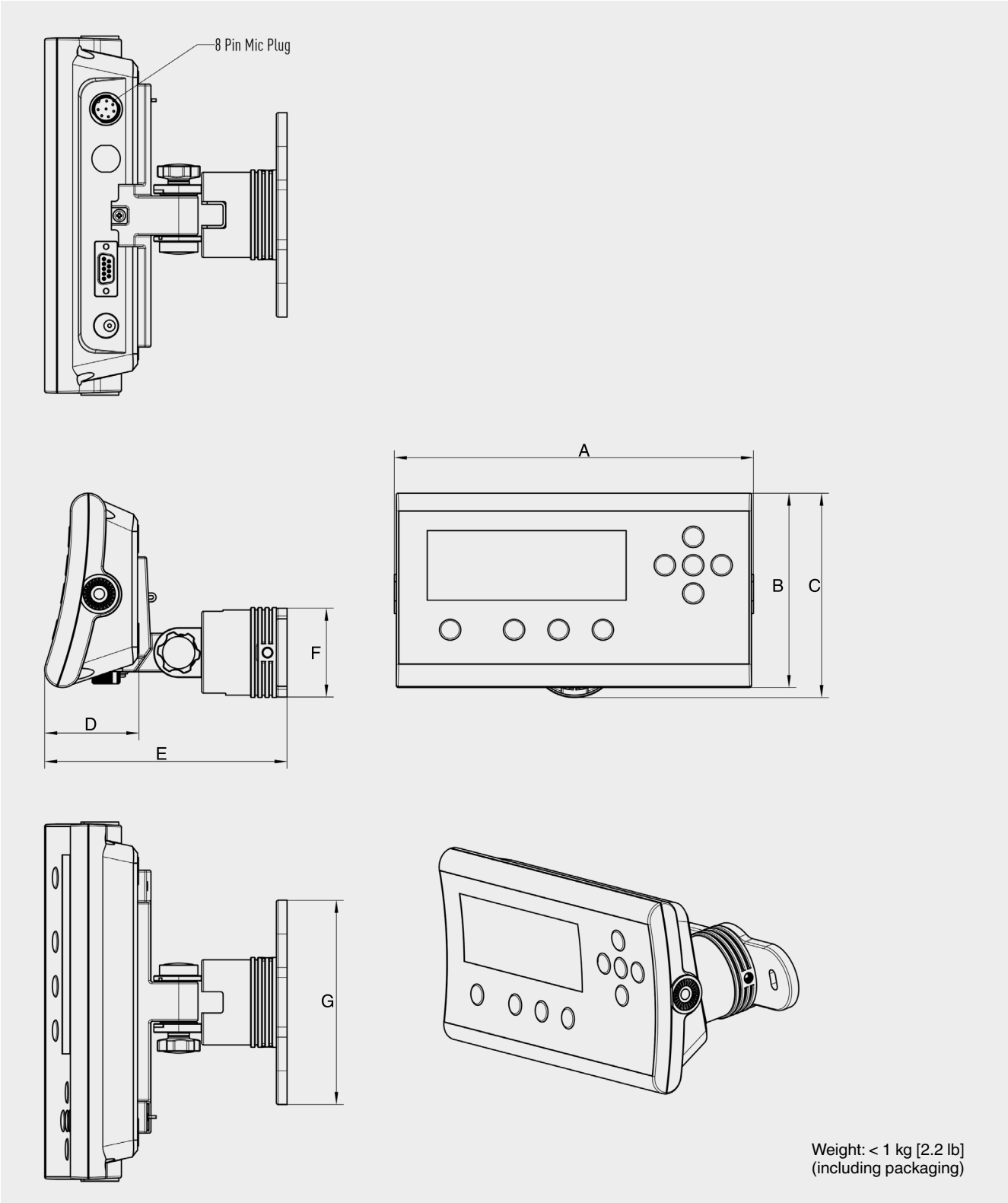
Dimensions in mm [in]

Model FE430-A1



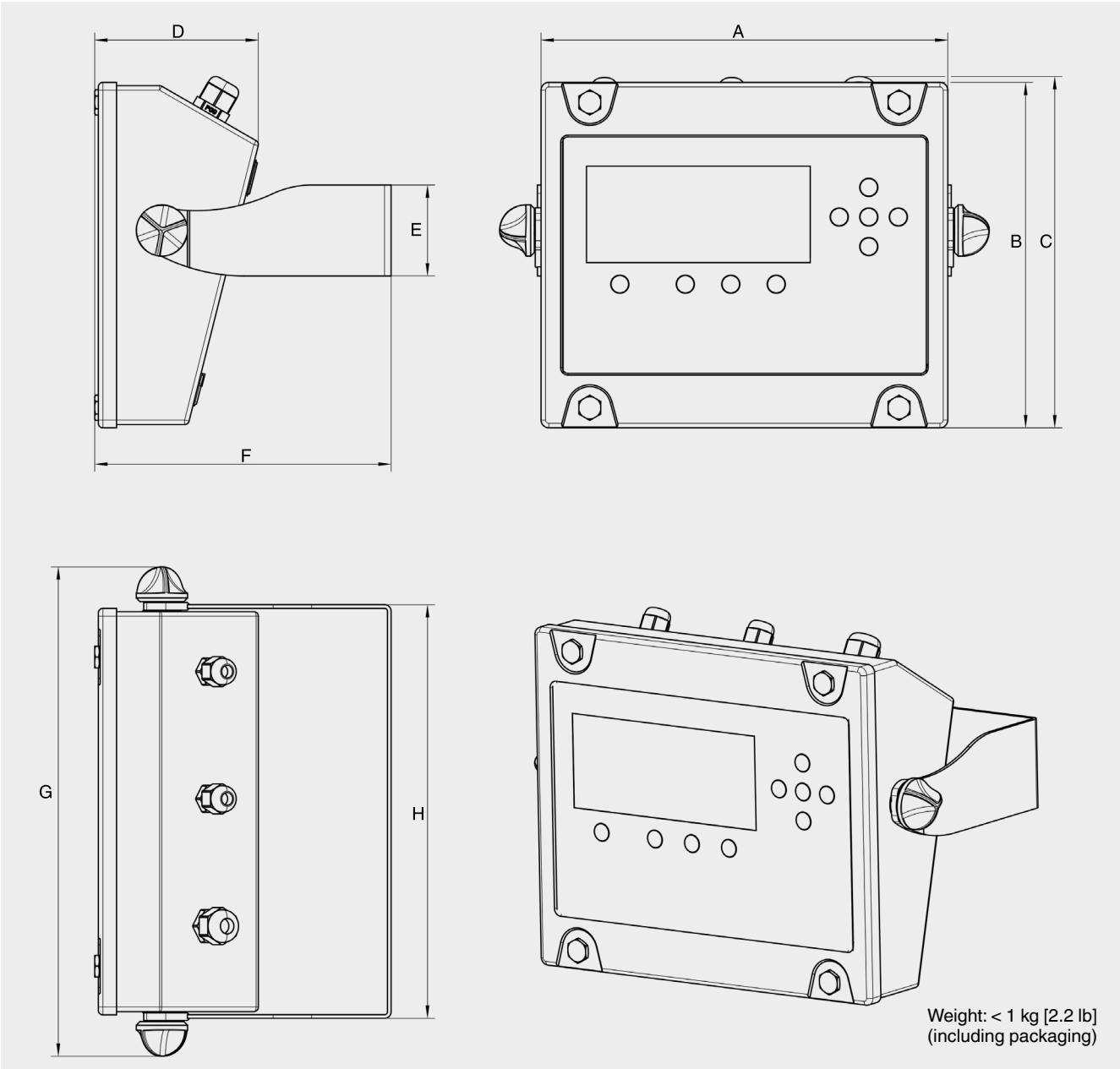
A	B	C	D	E	F
224 [8.82]	134 [5.28]	75 [2.95]	162 [6.38]	50 [1.97]	115 [4.53]

Model FE430-A2



A	B	C	D	E	F	G
203 [7.99]	110 [4.33]	116 [4.57]	137 [5.39]	54 [2.13]	50 [1.97]	115 [4.53]

Model FE430-B



A	B	C	D	E	F	G	H
224 [8.82]	190 [7.48]	194 [7.64]	90 [3.54]	163 [6.42]	50 [1.97]	270 [10.63]	228 [8.98]

Ordering information

Model / Battery operation / Power supply

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