



Product Description

The FT-11 Weight Indicator is a very accurate, versatile, general purpose instrument, available in different housings, meeting the industries demand for various environmental conditions.

The instrument is approved by Weights & Measures Authorities for use in Accuracy Class III applications with up to 10 000 intervals according to OIML R76.

Large 6 digit LED weight display (red 20 mm / panel type 14 mm) with weight status information.

Tactile 8-keys keyboard for basic scale functions.

With a variety of interface options the FT-11 is the perfect fit to weighing systems and process control systems.

Available Accessories

- Wall mounting kit and stand mounting kit for desk type housing
- Stand mounting kit for stainless steel housing
- Setup software running under MS Windows

Key Features

- EU Type approved for 10 000 intervals
- Single or dual range
- High internal resolution, display up to 60 000 counts
- Approved sensitivity 0.4 $\mu\text{V/e}$
- Calibration with weight or eCal (electronic calibration without test weights)
- Serial Interface RS232C
- Conversion rate max. 100/s
- Integrated power supply

Options

- Alibi Memory (up to 149 760 records)
- Second serial interface RS232C
- Third serial interface RS485 and Modbus RTU
- Profibus DP-V0 and DP-V1
- Ethernet TCP/IP and Modbus TCP
- Isolated digital inputs & outputs
- Analogue output (0-10 V and 4-20 mA)
- Rechargeable battery

Specifications

ACCURACY

Accuracy Class	III
EU Type approved	10 000 intervals (single range) or 2 X 6 000 intervals (dual range)

DISPLAY AND KEYBOARD

Display	6 digits, 7 segments, LED red, 20 mm high (Panel type 14 mm high)
Status annunciators	Gross, net, motion, zero, weighing range, information, power, unit
Keyboard	8-key membrane, with tactile feedback
On / off switch	Desk type, stainless steel: yes; Panel type: no
Key lock	Basic weighing related key can be locked against unauthorized access

A/D CONVERTER

Type	24 bit Delta-Sigma ratiometric with integral analog and digital filters
Conversion rate	Maximum 100 measurement values per second
Minimum input per vsi	0.4 μ V per interval legal for trade; 0.1 μ V per interval non approved
Analogue input range	0 mV to 20 mV
Resolution	Internal up to 8 million counts; display up to 60 000 counts

SCALE CALIBRATION AND FUNCTIONS

Calibration	Calibration is performed electronically or by application weights
Digital filter	10 step adjustable digital adaptive filter
Weighing functions	Tare, zero, auto zero tracking, motion detection, auto-zero at power-up
Other functions	Label number, total, gross, tare indication
Set points	3 set points, programmable (needs digital I/O option)
Tilting	Inhibits weighing when scale is tilted (needs digital I/O option)
Alibi Memory	Optionally available; 74 880 records or 149 760 records

LINEARITY AND STABILITY

Linearity & temperature coefficient	Within 0.0015 % FS; \leq 2 ppm/ $^{\circ}$ C
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LOAD CELLS

Excitation	5 V DC, max. 100 mA
Number of load cells	Up to 6 load cells (350 Ω) or 18 load cells (1 100 Ω) in parallel
Connection	4 or 6 wire technique. Cable length 274 m/mm ² for 6 wire connection

COMMUNICATION

Serial interface	RS232C, 1200...57 600 baud, programmable
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ENVIRONMENT AND ENCLOSURE

Operation Temperature	-10 $^{\circ}$ C to +40 $^{\circ}$ C legal for trade; 85% RH max, non-condensing.
Enclosure	Aluminium cast desk type (IP30), panel type (front panel IP65) or stainless steel housing (IP65)

	Panel type	Desk type	Stainless steel
POWER SUPPLY			
230 V AC, 50/60 Hz, max. 12 VA	•	•	•
12 V DC, max. 12 VA	0	0	0
Rechargeable battery	-	0	0
OPTION FOR ADDITIONAL INPUTS / OUTPUTS (maximum is one option per instrument, for two options please contact FLINTEC)			
2 nd Serial interface (RS232), max. 57 600 baud	0	0 (1)	0 (1)
2 nd Serial interface (RS232) and 3 rd Serial interface (RS232 / RS485 / Modbus RTU)	0	0 (1)	0 (1)
Profibus DP-V0 and DP-V1	0	-	0 (1)
Ethernet TCP/IP and Modbus TCP	0	0 (1)	0 (1)
Analogue output: 4-20 mA / 0-10 V	0	0 (1)	0 (1)
Binary output of displayed weight (17-bit code)	0	0 (1)	-
3x isolated digital inputs (24 V) and 3x isolated digital outputs (open collector)	0	0 (1)	0 (1)
ADDITIONAL MECHANICAL HARDWARE			
Wall mount kit	-	0	•
Stand mount kit	-	0	0
	• standard version	0 optionally available	- not available

(1) Not available if instrument is equipped with rechargeable battery.