

Type FT-12 Weight Indicator



Product Description

The FT-12 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 18-key keyboard for basic scale functions, specific functions and numeric data entry

With a variety of interface options and selectable specific scale functions the FT-12 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 $\mu\text{V/e}$
- Application programs for weighing, basic filling, check weighing, dynamic weighing (e.g. animal weighing) and peak hold
- 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
- 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	18-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 by application weights					
Digital filter	10 step adjustable digital adaptive filter					
Application modes	Basic weighing, filling, check weighing (over/under), dynamic weighing and peak hold					
Weighing functions	Tare, zero, auto zero tracking, motion detection, auto-zero at power-up					
Other functions	Date & time, label number, total indication, temporarily switching between net and gross, 2 x ID code, alphanumeric ID table can be downloaded, EPL format barcode label printing					
Set points	3 set points, programmable (digital I/O board is an option)					
Tilt sense input	Inhibits weighing when scale is tilted (needs digital I/O board option)					
Memory	Up to 99 IDs (alphanumeric), up to 99 preset tare and 9 setpoint groups (3 set points per group) can be stored					
Alibi Memory	Optionally available; 74 880 records or 149 760 records					
LINEARITY AND STABILITY						
Linearity & temperature coefficient	Within 0.0015 % FS; ≤ 2 ppm/ $^{\circ}$ C					
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, 1 200...57 600 baud, programmable					
ENVIRONMENT AND ENCLOSURE						
Operation temperature & humidity	-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	0 (1)	0	0 (1)	0
2 nd Serial interface (RS232) and 3 rd Serial interface (RS232 / RS485 / Modbus RTU)	0	0	0 (1)	0	0 (1)	0
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	0 (1)	0	-	-
3x isolated digital inputs (24 V) and 3x isolated digital outputs (open collector)	0	0	0 (1)	0	0 (1)	0
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.						