



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)
- Additional serial interface RS232C or RS485 and Modbus RTU
- Profibus DP-V0 and DP-V1
- Ethernet TCP/IP and Modbus TCP
- ProfiNet interface
- CANopen 2.0 interface
- Isolated digital inputs & outputs
- Analogue output (0-10 V and 4-20 mA)

Specifications													
ACCURACY													
Accuracy Class	III												
EU Type approved (verification scale intervals)	10 000 vsi (single range) or 2 X 6 000 vsi (dual range)												
DISPLAY AND KEYBOARD													
Display	6 digits, 7 segments, LED red, 20 mm high (Panel type 14 mm high)												
Update rate	250 ms												
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 sensitivity	0.1 μ V/d												
Certified accuracy according OIML R76	0.4 μ V/vsi (legal for trade)												
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; corner adjustment only externally												
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												
LOAD CELLS													
Excitation	5 V DC at 58...1 200 Ω , 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												
Continuous mode update rate	100 ms												
Option board update rate	40 ms												
ENVIRONMENT AND ENCLOSURE													
Operation Temperature	-10 $^{\circ}$ C to +40 $^{\circ}$ C legal for trade; 85% RH max, non-condensing.												
Dimensions	See data sheet E159												
Enclosure	Panel type (front IP65)			Aluminium cast desk type (IP30)			Stainless steel housing (IP65)						
							70 mm deep			100 mm deep			
POWER SUPPLY													
230 V AC, 50/60 Hz, max. 12 VA	•				•				•				
230 V AC, 50/60 Hz, with rechargeable battery				0							0		
12 V DC, max. 12 VA		0			0			0				0	
24 V DC, max. 12 VA			0			0			0			0	
OPTION FOR ADDITIONAL INPUTS / OUTPUTS (for two or more options please contact FLINTEC)													
2 nd Serial interface (RS232), max. 57 600 baud	0	0	0	0	-	0	0	0	0	0	0	0	0
3 rd Serial interface (RS232 / RS485 / Modbus RTU)	0	0	0	0	-	0	0	0	0	0	0	0	0
Profibus interface, DP-V0 and DP-V1, up to 12 Mbit/s	0	0	0	-	-	-	-	0	0	0	0	0	0
Ethernet interface, Modbus TCP/IP, 100 Mbit/s	0	0	0	0	-	0	0	0	0	0	0	0	0
ProfiNet, full-duplex, 100 Mbit/s	0	0	0	-	-	-	-	0	0	0	0	0	0
CANopen 2.0, up to 12 Mbps	0	0	0	-	-	-	-	0	0	0	0	0	0
Analogue output (16-bit): 4-20 mA / 0-10 V	0	-	0	0	-	-	0	0	-	0	0	-	0
3x isolated digital inputs (24 V) and 3x isolated digital outputs (open collector)	0	0	0	0	-	0	0	0	0	0	0	0	0
ADDITIONAL MECHANICAL HARDWARE													
Wall mount kit	-			0				•				•	
Stand mount kit	-			0				0				0	
<ul style="list-style-type: none"> • standard version 0 optionally available - not available 													