



Product Description

The FT-13 Weight Controller is a very accurate and versatile weight indicator which is used for a wide variety of process weighing applications including filling and dispensing. Whether filling or dispensing solids, liquids or gases, the FT-13 Weight Controller automates the entire process. Its variety of interface options and selectable specific scale functions perfectly fit to weighing systems and process control systems.

FT-13 increases the flexibility by offering the possibility to implement specific functions / interlockings with its free programmable feature.

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 and tactile 18-key keyboard for basic scale functions, specific functions and numeric data entry.

Available Accessories

- Stand mounting kit for stainless steel housing

Key Features

- EU Type approved for 10 000 intervals
- High internal resolution, display up to 60 000 counts
- Approved sensitivity 0.4 $\mu\text{V/e}$
- Serial Interface RS232C
- 4 digital inputs & 8 digital outputs
- Conversion rate max. 400/s
- Integrated power supply
- Pre-configured applications for typical filling / dispensing tasks
- Programmable functions / interlockings for further optimisation

Options

- Second programmable serial interface RS232C / RS485 and Modbus RTU
- Ethernet interface TCP/IP and Modbus TCP
- Profibus DP-V0 and DP-V1
- Additional isolated digital inputs & outputs

Specifications				
ACCURACY				
Accuracy Class	III			
EU Type approved	10 000 intervals single 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, information, power, unit and 6 LED's for application related status			
Keyboard	18-key membrane, with tactile feedback			
On / off switch	Stainless steel: yes; Panel type: no			
Key lock	Keys are locked automatically during filling process			
A/D CONVERTER				
Type	24 bit Delta-Sigma ratiometric with integral analog and digital filters			
Conversion rate	Max. 400 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	Open container filling, bunglehole container filling, below surface filling, filling & emptying, filling & discharging, weigh-in/weigh-out, discontinuous totalizer			
Weighing functions	Tare, zero, motion detection			
Other functions	Date and time, label number, total indication, temporarily switching between net and gross			
Digital inputs / digital outputs	4x isolated digital inputs (24 V) and 8x isolated digital outputs (open collector)			
LINEARITY AND STABILITY				
Linearity & temperature coefficient	Within 0.0015 % FS; \leq 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	panel type (front panel IP65) or stainless steel housing (IP65)			
		Panel type		Stainless steel
POWER SUPPLY				
230 V AC, 50/60 Hz, max. 12 VA	•		•	
12 V DC, max. 12 VA		0		0
OPTION FOR ADDITIONAL INPUTS / OUTPUTS (maximum is one option per instrument, for two options please contact FLINTEC)				
2 nd Serial interface (RS232, RS485, Modbus RTU)	0	0	0	0
Profibus DP-V0 and DP-V1	0	-	0	-
Ethernet TCP/IP and Modbus TCP	0	-	0	-
4x isolated digital inputs (24 V) and 8x isolated digital outputs (open collector)	0	0	0	0
ADDITIONAL MECHANICAL HARDWARE				
Wall mount kit		-	•	
Stand mount kit		-	0	
	• standard version	0 optionally available		- not available