

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. | | | | | | |