

## Type FT-16/-16D Weighing Terminal



### Product Description

The FT-16 Weighing Terminal is a very accurate instrument, especially designed for use in weighbridge applications and weighing systems with label printer where a PC is not needed, but a certain amount of data handling and easy operation is required.

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

The actual weight is displayed on the Monitor and also on the basic terminal housing with a large 6 digit LED weight display (red 20 mm) with weight status information. The basic terminal is also equipped with 6 tactile keys for scale and specific functions.

Standard PC keyboard, Monitor and clear software structure allow an easy operation.

### Key Features

- EU Type approved for 10 000 intervals
- Single or dual range
- High internal resolution, display up to 60 000 counts
- Sensitivity 0.4  $\mu\text{V/e}$  approved (FT-16 only)
- Alibi memory (up to 74 880 records)
- Software for weighbridge and label printing applications
- Serial Interface RS232C
- Parallel printer interface
- Integrated power supply
- Standard Monitor and PC keyboard
- FT-16D for connection to digital RC3D load cells

### Options

- Alibi memory (up to 149 760 records)
- Ethernet TCP/IP
- Interface for remote display
- RS485 interface and Modbus RTU

Specifications		
	FT-16 Weighting Terminal	FT-16D Digital Weighting Terminal
<b>ACCURACY</b>		
Accuracy Class	III	
EU Type approved	10 000 intervals (single range) or 2 x 6 000 intervals (dual range)	
<b>DISPLAY AND KEYBOARD</b>		
Display	6 digits, 7 segments, LED red, 20 mm high	
Status annunciators	Gross, net, motion, zero, weighing ranges, information, unit	
Keypad	6-key membrane, with tactile feedback	
Decimal point	Between any digit of the display	
<b>TERMINAL FEATURES</b>		
PC board	PC/104 form factor, single board computer with static flash disk	
Record capacity	More than 30 000 weighing records	
Application software	Truck scale software or labelling software	
<b>A/D CONVERTER</b>		
Type	24 bit Delta-Sigma ratiometric with integral analog and digital filters	-
Conversion rate	Maximum 100 measurements per second	-
Minimum input per vsi	0.4 $\mu$ V per interval legal for trade; 0.1 $\mu$ 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	display up to 60 000 counts
<b>SCALE CALIBRATION AND FUNCTIONS</b>		
Calibration	Calibration is performed by application weights.	
Corner adjustment	Only externally	Automatic corner adjustment
Digital filter	10 step adjustable digital adaptive filter	5 step adjustable digital adaptive filter
Weighing Functions	Tare, zero, auto zero tracking, motion detection, auto-zero at power-up	
Alibi memory	74 880 records, 149 760 records optionally available	
<b>LINEARITY AND STABILITY for standard load cells</b>		
Linearity & temperature coefficient	Within 0.0015 % FS; $\leq$ 2 ppm/ $^{\circ}$ C	
<b>LOAD CELLS for standard load cells for digital load cells</b>		
Communication & protocol	-	RS-485 half-duplex, compatible with RC3D load cell
Excitation	5 V DC, max. 100 mA	12 V DC, max. 450 mA
Number of load cells	Up to 6 load cells (350 $\Omega$ ) or 18 load cells (1 100 $\Omega$ ) in parallel	Up to 10 digital load cells (internal power) or 16 digital load cells (external power) in parallel
Connection	4 or 6 wire technique, cable length 274 m/mm <sup>2</sup> for 6 wire connection	4 wire technique, 2 wires for digital interface and 2 wires for power supply
<b>COMMUNICATION</b>		
Serial interface	RS 232C for second scale connection, data transfer or serial printer connection	
Parallel port	Parallel data interface for printer connection	
<b>POWER SUPPLY</b>		
Power requirements	230 V AC, 50/60 Hz, max. 12 VA	
<b>ENVIRONMENT AND ENCLOSURE</b>		
Operation temperature	-10 $^{\circ}$ C to +40 $^{\circ}$ C legal for trade; 85% RH max, non-condensing.	
Housing	Desk type stainless steel front panel and cover (IP 30)	
<b>OPTION FOR ADDITIONAL INPUTS / OUTPUTS ( maximum is one option per instrument )</b>		
2 <sup>nd</sup> Serial interface	RS232C for remote display	
2 <sup>nd</sup> and 3 <sup>rd</sup> Serial interface	Interface 2 is RS232C. Interface 3 is RS232C or RS 485. RS485 can be used for RTU Modbus.	
Ethernet TCP/IP	Data transfer via Ethernet interface.	
<b>ACCESSORIES</b>		
Keyboard	PC compatible keyboard for application software operation	
Monitor	PC-compatible monitor	

**Dimensions (in mm)**