



**AUSTRALIA'S LARGEST  
WEIGHBRIDGE MANUFACTURER!**

**ultrahawke**

UltraHawke Pty Ltd  
ACN 004 659 358



## **FT-16 & FT-16D** **Weighing Terminals Ideal for Weighbridge Applications**



### **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 NMI 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 20mm) with weight status information. The basic terminal is also equipped with six tactile keys for scale and specific functions.

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

by

 **FLINTEC**

### **KEY FEATURES**

- NMI Approval for 10,000 Intervals
- Single or Dual Range
- High Internal Resolution, Display Up to 60,000 Counts
- Sensitivity 0.4 $\mu$ V/Division Approved (FT-16 Only)
- Alibi Memory (Up to 74,880 Records)
- Software for Weighbridge and Label Printing Applications
- Serial Interface RS-232C
- Parallel Printer Interface
- Integrated Power Supply
- Standard Monitor and PC Keyboard
- FT-16D for Connection to Digital RC3D Loadcells

### **OPTIONS**

- Alibi Memory (Up to 149,760 Records)
- Ethernet TCP/IP
- Interface for Remote Display
- RS-485 Interface and Modbus RTU

# SPECIFICATIONS

	FT-16	FT-16D
<b>ACCURACY</b>		
Accuracy Class	III	
NMI Type Approval	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, 20mm 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	PC104 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	0mV to 20mV	-
Resolution	Internal Up to 1,000,000 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 Adjustments	Only Externally Automatic Corner Adjustment	Automatic Corner Adjustments
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	740 Records, 149,760 Records Optionally Available	
<b>LINEARITY AND STABILITY</b>		
Linearity and Temperature Coefficient	Within 0.0015% of Full Scale $\leq$ 2ppm $^{\circ}$ C	
<b>LOADCELLS</b>		
	<b>For Standard Loadcells</b>	<b>For Digital Loadcells</b>
Communication and Protocol	-	RS-485 Half-Duplex, Compatible with RC3D Loadcell
Excitation	5VDC, Maximum 100mA	12VDC, Maximum 450mA
Number of Loadcells	Up to 6 Loadcells at 350 $\Omega$ or Up to 18 Loadcells at 1,100 $\Omega$ in Parallel	Up to 10 Digital Loadcells Using Internal Power or Up to 16 Loadcells using External Power in Parallel
Connection	4 or 6 Wire Technique, Cable Length 274m/mm $^2$ 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	230VAC, 50/60Hz, Maximum 12A	
<b>ENVIRONMENT AND ENCLOSURE</b>		
Operation temperature	-10 $^{\circ}$ C to +40 $^{\circ}$ C Legal for Trade, 5% Relative Humidity Maximum, 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>		
2nd Serial Interface	RS-232C for Remote Display	
2nd and 3rd Serial interface	Interface 2 is RS-232C, Interface 3 is RS-232C or RS-485, RS-485 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	