



**AUSTRALIA'S LARGEST  
WEIGHBRIDGE MANUFACTURER!**

**ultrahawke**

UltraHawke Pty Ltd  
ACN 004 659 358



## **FT-13 Filling & Dispensing Digital Indicator for Analogue Loadcells**



### **DESCRIPTION**

The FT-13 Weight Controller is a very accurate, 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.

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

The instrument is approved by NMI for trade use in Accuracy Class III applications with up to 10,000 intervals.

A large 6-digit red LED weight display (20mm high for the stainless steel version, 14mm high for the panel mount version) displays the weight status information. A tactile 18-key keyboard allows for basic scale functions, specific functions and numeric data entry.

### **KEY FEATURES**

- NMI Approval for 10,000 Intervals
- High Internal Resolution, Display up to 60,000 Counts
- Approved Sensitivity 0.4µV/Divisions
- Serial Interface RS-232C
- Conversion Rate Maximum 400 Times/Second
- Integrated Power Supply
- Pre-Configured Applications for Typical Filling/Dispensing Tasks
- Programmable Functions/Interlocks for Further Optimisation

### **OPTIONS**

- Second Serial Interface RS-232C, RS-485 and Modbus RTU
- Ethernet TCP/IP and Modbus TCP
- Profibus DP-V0 and DP-V1
- Additional Isolated Digital Inputs and Outputs

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### **ACCESSORIES**

- Stand Mounting Kit for Stainless Steel Housing

# SPECIFICATIONS

PERFORMANCE	
Display	6-Digit, 7-Segment, Red LED, 20mm High (Panel Mount 14mm High)
Status Annunciators	Gross, Net, Motion, Zero, Information, Power, Unit and 6 x LEDs for Additional Statuses
Update Rate	250ms
Display Resolution	10,000 Intervals or 6,000 Intervals, Single Range
Keyboard	18-Key Membrane, with Tactile Feedback
DIGITAL	
Setup and Calibration	Calibration is Performed Electronically or by Application of Test Masses
Digital Filter	10-Step Adjustable Digital Adaptive Filter
Weighing Functions	Tare, Zero, Auto Zero Tracking, Motion Detection
Other Functions	Date and Time, Label Number, Total Indication, Temporarily Switching Between Net and Gross
Digital Inputs/Digital Outputs	4 x Isolated Digital Inputs (24V) and 8 x Isolated Digital Outputs (Open Collector)
A/D CONVERTOR	
Type	24 Bit, Delta-Sigma Ratiometric with Integral Analog and Digital Filters
Conversion Rate	400 Times per Second
Minimum Input VSI	0.4 $\mu$ V/Division for Trade Use, 0.1 $\mu$ V/Division for Non-Trade Use
Analogue Input Range	0mV to 20mV
Resolution	Internal Up to 8,000,000 Counts; Display Up to 60,000 Counts
Linearity	Within 0.0015 % of Full Scale
Temperature Coefficient	<2ppm/ $^{\circ}$ C
LOADCELLS	
Excitation	5VDC Maximum, 100mA, Up to 6-Loadcells @ 350 $\Omega$
Loadcell Connection	4 or 6 Wire Connection, Cable Length 274m/mm <sup>2</sup> for 6 Wire Connection
SERIAL COMMS	
Serial Outputs	RS-232C, 1,200 to 57,600 Baud, Programmable
Continuous Mode Update Rate	100ms
Option Board Update Rate	40ms
ENVIRONMENT	
Operating Temperature	-10 $^{\circ}$ C to +40 $^{\circ}$ C for Trade Use, 85% RH Maximum, Non-Condensing
Enclosure	Panel Type (Front Panel IP-65 ) or Stainless Steel Housing (IP-65)

	PANEL MOUNT	STAINLESS STEEL
<b>POWER SUPPLY</b>		
230VAC, 50/60Hz, Max. 12VA	✓	✓
12VDC, Max. 12VA	+	+
24VDC, Max. 12VA	+	+
<b>OPTION FOR ADDITIONAL INPUTS/OUTPUTS (Maximum of One Option per Instrument)</b>		
Second Serial Interface (RS-232/485/Modbus RTU)	+	+
Profibus DP-V0 and DP-V1	+	+
Ethernet TCP/IP and Modbus TCP	+	+
4 x Isolated Digital Inputs (24V) and 8 x Isolated Digital Outputs (Open Collector)	+	+
<b>ADDITIONAL MECHANICAL HARDWARE</b>		
Wall Mount Kit	×	✓
Stand Mount Kit	×	+

✓ Available as Standard    + Available as Option    × Not Available    <sup>1</sup> Not available if instrument is equipped with rechargeable battery.