

FT-30M weighing indicator



Product description

The FT-30M is a modular onboard vehicle weight indicator.

It features a clear and easy to read full colour LED touch-screen display and M12 (A coded) electrical connections. It is directed to all road going vehicles, agricultural machines and other forms of static and mobile mechanical handling machinery.

The simple to use weight indicator gives operators the power to control payloads, maximise profits and avoid dangerous overloads. Alarms alert users to upcoming and present overloads. Simple on-screen menus allow drivers to choose between net, gross, percent, collected or delivered weights. A passcode protects essential settings. It's compatible with a range of accessory devices for maximum vehicle utilisation and payload efficiency. On screen calibration makes set-up simple.

Mounting options

Radio DIN slot*	For fitting to a spare radio slot
Dash mount*	Swivel RAM-mount bracket - 1/4 -20 UNC camera thread
Enclosure/Panel*	IP68 flange mounted polycarbonate enclosure with hinged clear lid and metal lockable latch

* non-standard items to be ordered separately

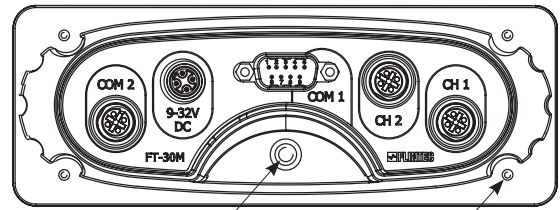
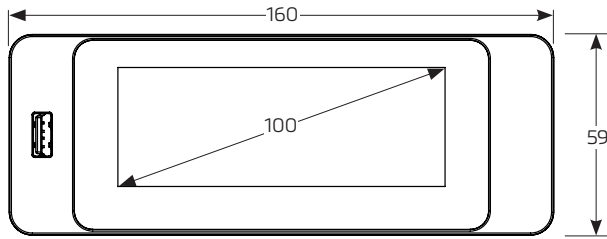
Optional devices

External alarm sounder	IP68 fixed or multi-tone sounder
Flashing beacon	IP68 LED amber beacon
Printer	Thermal printer - powered through the RS232 9-pin 2m connector-cable
Junction box	2, 4 or 6 point summing box
Cabling	Selection of M12 cables and accessories

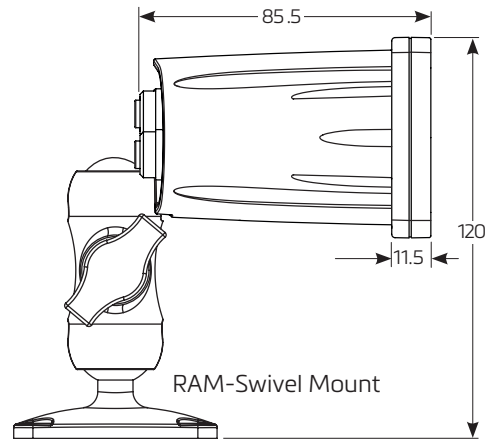
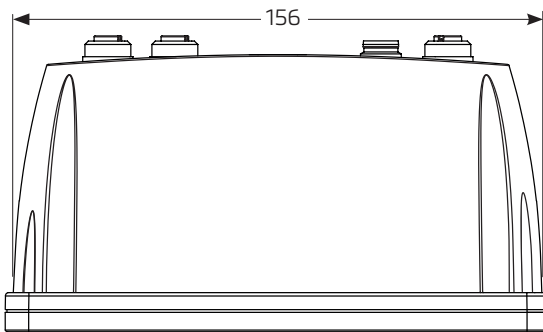
Key features

- Two overload alarm set-points
- On-screen customer identification
- Record collected or delivered loads
- Print bin weights with time & date
- Retrofits existing installations
- CE marked
- Type approved to UNECE regulation 10.05 by VCA
- Six languages. Kg or Lbs
- Anti-tamper passcode protection
- On-screen troubleshoot diagnostics

Dimensions (mm)



RAM-Mount fixing thread Panel mount fixing thread M3, 4 positions



not to scale

RAM-Swivel Mount

Connections



1. Input Channel ONE, Max +/-19.0625 millivolts.
2. Input Channel TWO, Max +/-19.0625 millivolts.
3. COM port 1 RS232 port for printers.
4. Power Input 9-32 Volts DC & 2 Alarm power outputs.
5. COM port 2 RS485 port for LDUs (**to be added in 2017**).
6. Panel mount and radio DIN fixing screws M3.
7. 1/4" - 20 UNC camera mount to attach RAM-Mount 1" ball.
8. DIN radio mount ear brackets - two required.

Specifications

MODEL	FT-30M
Specifications	
Accuracy	Dual channel 24-bit delta-sigma ADC.
Display	RGB colour 480 x 169 dots
Screen viewing dimensions	35mm x 95mm
Calibration and Functions	
Configuration modes	Single, dual, twin, pick-up and deliver.
Pass-code	Essential settings pass-code protected. User configurable.
Tare	Tare weight 0-99999 .
Zero calibration	Zero calibration is performed with zero load.
Net payload calibration	Net payload calibration is performed with a weigh-bridge or static weights.
Weighing functions	Tare, Net, Gross, Load, Site loads, Percentage.
Internal storage	65 Mb of internal storage capacity for 1,000,000 weight records.
Brightness	User adjustable, high, medium or low.
Languages	En, De, Fr, Es, It, Pt
Count-by	1,10, 20, 50, 100, 200
Units	Kg or Lbs
Date format	User selectable.
Time zone	All time zones.
Diagnostics	mV and ADC counts for both channels.
Updates	Operation system software, customer names, print ticket with a USB memory stick.
Interface	
Load cell input	Two 4 wire channels. Input 8 load cells per channel. Pin 1 +Ex, Pin 2 + Sig, Pin 3 -Ex, Pin 4 -Sig. Signal input +/-19.0625mV max. Sample Rate 10SPS. (single channel operation). Resolution (ENOB) 21.1. Noise Free Bits bits = (18.4 bits). Excitation +4.8V DC.
RS232 Serial	Baud rate fixed at 9600, n, 8,1. Connector 9 way D connector. Options Printer or Format protocol. Pin 1 Tx Transmit, Pin 3 Rx Receive, Pin 5 GND 0 Volts ground, Pin 9 12 volts.
RS485	To be added 2017
USB	USB2 Max current 0.5A.
Alarms	Amber alarm (alarm 1) switched vehicle voltage when the alarm is on and triggered. Red alarm (alarm 2) switched vehicle voltage when alarm is on and triggered.
Environment & Enclosure	
Enclosure	Housing material ABS.
Weight	400 grammes.
Temperature rating	-20 to +50C
Environmental	IP30
Power	
Voltage	Input 9V to 32V DC. Pin 1 vehicle volts, Pin 2 Amber alarm (9-32V), Pin 3 Ground (0V), Pin 4 Red alarm 2 (9-32V).
Consumption	100mA at 24V DC + external loads. Maximum input current 4A.
Testing	
EMC classification	UNECE regulation 10.05. Approval number E11 10R-059362.
Environmental	Undergone extensive vibration, temperature and humidity testing.

