FT-30M

On-board Weighing Indicator

quality **+** precision

7472 kg

flintec

FT-30M
On-board Weighing Indicator

Quality by Design

The pursuit of excellence and the constant desire for innovation has led to the development of the FT-30M on-board weighing indicator.

Created to meet the needs of industrial and agricultural vehicle operators, a modern smart device that's rugged, reliable and easy to use.

Extensive research, combined with many hours of development and testing, ensures that the FT-30M is adaptable to any loaded vehicle environment whilst being both easy to operate and reliable.

We have assured physical robustness through extreme vibration testing. The indicator is also certified in accordance with European VCA regulations, guaranteeing safe vehicle operation.

Industry Firsts

A full-colour touch screen display

A USB interface allowing for simple upload and download procedures

Intuitive finger swipe actions

A Microsoft® embedded operating system allowing for easy updates

DIN slot mountable

Compatibility with a range of accessories

Applications

Mines **+** Quarries

Cranes **+** Skip Truck

Articulated **+** Semi-trailer

Tippers **+** Bulk

Waste **+** Recycling

Hookloader **+** FELs **+** RELs

Forestry **+** Logger

Cement **+** Concrete

Mixers

Wagon **+** Drag

Agricultural

Light commercial

Key Features

Two Overload Alarm Set-Points

On-Screen Customer Identification

Record Collected or Delivered Loads

Print Bin Weights with time + date

Two Channel mV Input

High Resolution RGB Touch Screen

Six Languages

Kg or Lbs

Anti-Tamper Pin-code Protection

On-Screen Troubleshoot Diagnostics

Versatile Mounting Options

Microsoft Embedded Software

Simple **+** Effective

The FT-30M offers easy fitment with plug-and-play compatibility across a range of common accessories.

The indicator displays information in real-time on a full-colour touch screen. It's ideal for those who want to weigh and display, whilst also offering the ability to store, download and print individual customer weight readings.

Easy to Use

User friendliness is central to the design of the FT-30M with both end users and installers in mind.

Navigation through the menus is easy with single touch commands and finger swipe gestures.

Users can choose between net, gross, percent, collected and delivered weights, with options to view, print and store.

Feature Rich

Common connection types allow you to install the FT-30M with a wide range of purpose made accessories, for various industrial and agricultural applications.

Integration with trackers, telemetry systems, and printers provides complete flexibility.

Standard features include pin-code protection, on-screen diagnostics, and internal flash memory for storing weights.

Compatible **+** Versatile

The FT-30M is the first on-board weighing indicator designed with multiple applications in mind.

Mounting accessories allow you to fix the device to the dashboard within a DIN radio slot or on an adjustable swivel bracket. An IP68 waterproof enclosure allows for external fitment.

Complementing the FT-30M is Flintec's wide range of high quality on-board weighing load cells. Various high capacity, high accuracy, stainless steel options are available, across all application types.

The indicators plug-and-play capability makes it compatible with existing body mounted load cell configurations eliminating the need to upgrade to Flintec sensors.

Tested for Reliability

Extensive vibration testing at vehicle test facilities ensures the FT-30M is reliable and fit for purpose. The unit is VCA approved, CE compliant, and conforms with the European Union's WLVTA (Whole Life Vehicle Type Approvals). It helps hauliers avoid OCRS (Operator Compliance Risk Score) points via roadside weight checks.

CE (E11) 10R-059362

Bulk Haulage
Industrial Application

The FT-30M allows vehicles to be accurately loaded to their legal limit. Hauliers can easily keep track of their loads and enjoy a more efficient and reassuring work-flow.

Accurately Determine Payloads

Integrated with on-board weight sensors, the FT-30M provides an accurate and convenient way to monitor payloads.

Versatile Mounting Options

Small and portable, the FT-30M can be mounted unobtrusively in the cab or on the chassis.

Two Overload Alarm Set-Points

Customisable alarms allow you to keep track of your load limits and avoid unintentional overloading.

Kg or Lbs Configurable

Easily toggle the device to display Kg or Lbs, to best suit your work-flow.

VCA Certified

Full certification for use will give you peace of mind when on the road and avoid potential penalties.

Waste Collection

Industrial Application

The FT-30M makes it quick and easy to weigh and record individual customer collections. Pinpoint profits and losses and improve productivity.

Two overload alarms and a compactor plate cut-off function allows for easy load control.

Accurately Monitor Bin Weights

Monitor individual bin weights to keep track of profits and losses.

Print Tickets

Individual loads can be logged and printed with customer details, time and date.

Two Overload Alarm Set-Points

Customisable alarms allow you to keep track of your load limits and avoid unintentional overloading.

On-screen Customer ID

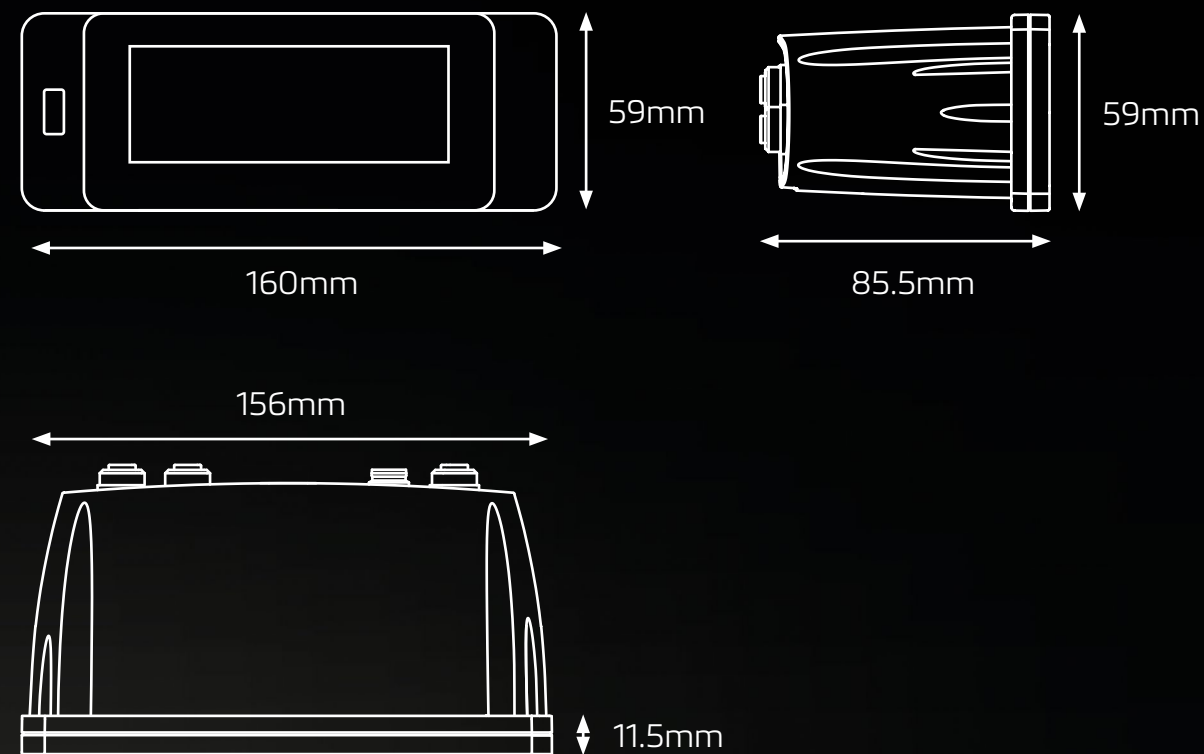Upload and manage customer IDs on-screen.

Touch Screen

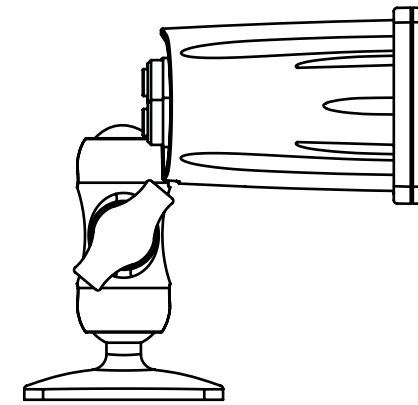A full colour touch screen makes the FT-30M easy and simple to use.

FT-30M

Dimensions

Designed to be compact and lightweight, the FT-30M fits neatly into the spare radio DIN slot in vehicle cabs.

59mm
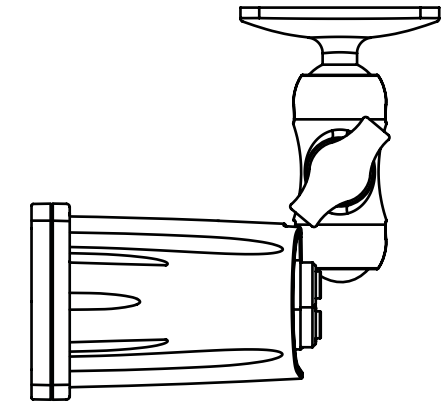
160mm

59mm

85.5mm

156mm

11.5mm

7472 kg

Mounting

A range of mounting options lets the FT-30M adapt to your particular needs. This versatility can be of great value when limited cab space is an issue.
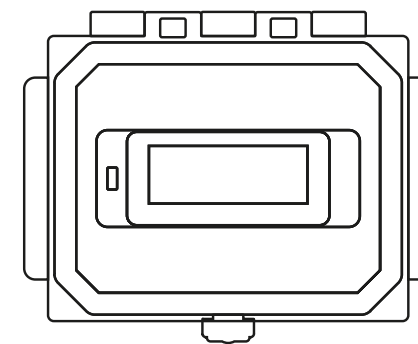
RAM Swivel

The RAM swivel bracket allows the FT-30M to sit conveniently on the dashboard.
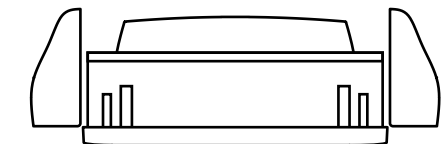
RAM Swivel

The RAM swivel bracket can attach to the roof to economise on space.

Enclosure

The IP68 certified enclosure affords greater protection in harsh environments. Suitable for fitting on the outside of a vehicle, it features a hinged clear lid and lockable metal latch.
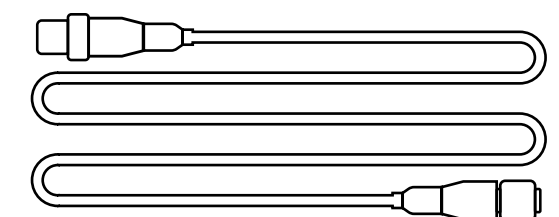
DIN Slot

The FT-30M is sized to fit standard radio DIN slots. An optional DIN radio kit is available comprising of two ears, a zinc plated cage, extraction keys, and screws.

Extension Cables

All Flintec on-board weighing load cells and sensors come with a 5 meter male M12 extension cable as standard which can be used to connect to the FT-30M.

Extension cables for longer reach applications are available in 1, 3, 5, 7.5 and 10 meter lengths.
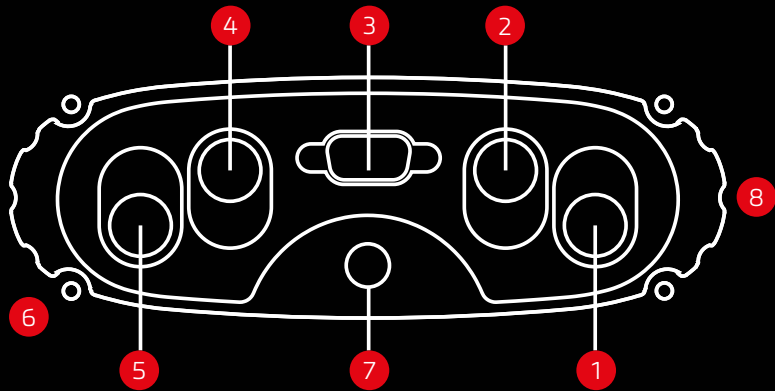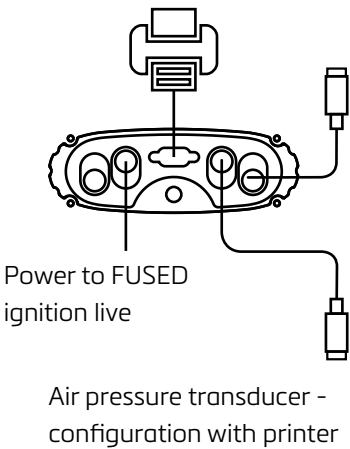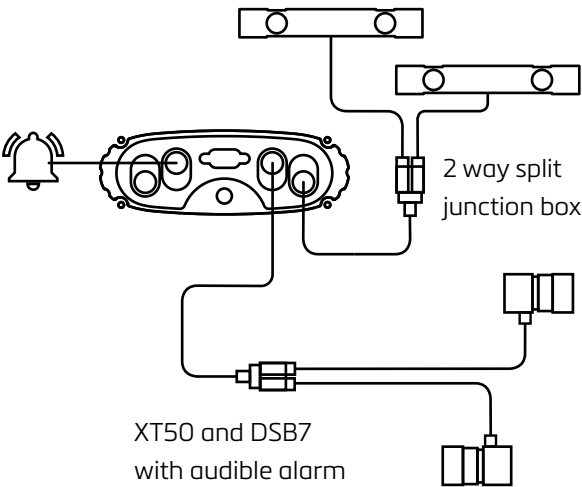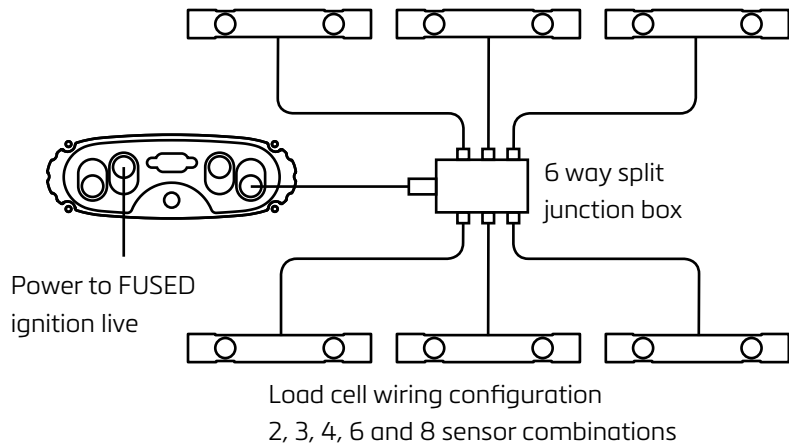
FT-30M

Connections

Designed to be compact and lightweight, the FT-30M fits neatly into a spare radio DIN slot.

1. Input channel ONE
2. Input channel TWO
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
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

Wiring

The FT-30M can be wired into numerous configurations. Junction boxes allow you to combine multiple load cells and accessories into a weighing system that fits your application. Below are some example configurations.

6 way split junction box

Power to FUSED ignition live

Load cell wiring configuration
2, 3, 4, 6 and 8 sensor combinations

2 way split junction box

XT50 and DSB7 with audible alarm

Power to FUSED ignition live

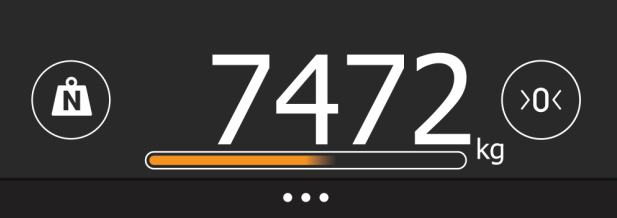Air pressure transducer - configuration with printer

Connectors

High quality M12 connectors allow for quick, error-proof installation. This means less time in the workshop and a better chance of a successful first-time installation.

FT-30M

Interface

The FT-30M uses an industry first high definition, touch screen, LCD display.

It's designed to be compact and lightweight with a large, clear display. The touch screen operation eliminates the need for old fashioned membrane keypads.

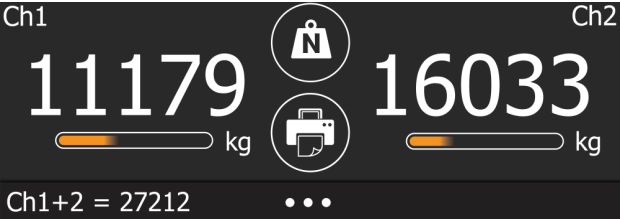Both a visible and audible alarm are available to help prevent vehicle overloading.

7472 kg

Alarm bar fills incrementally as you approach limit.

17823 kg

Amber alarm set-point reached.

27386 kg

Red alarm set-point reached.

Ch1 **11179** kg   Ch2 **16033** kg
Ch1+2 = 27212

Twin channel display.

Compatibility

The FT-30M is compatible with any strain gauge based load cell. Flintec offers the broadest range of on-board vehicle weighing load cells in the industry.

The Flintec range of load cells is ideally suited to on-board weighing applications. Constructed from stainless steel and hermetically sealed, they are available in a range of capacities for trade approved weighing.

Options

Extensometers – for front end loader systems

Bin lift load cells – for dynamic bin lifters

Chassis mounted load cells – for whole body weighing

Ag bars – for agricultural machine control

Air and fluid pressure sensors

Accessories

A range of compatible accessories are available for the FT-30M which can enhance your weighing system and cater to all your operational needs.

Thermal Printer

No ink cartridges

Custom print headers

Plug and play

Includes swivel mount

Small size

Alarm Sounder

High volume

Choose tone and sound

IP65

Flashing Beacon

Low power LEDs

Bright and easily seen

Choice of colours

IP56

Specifications

Power

Voltage input 9V to 32V DC

Consumption 100mA at 24V DC **+** external loads

Max input current 4 Amps

Display

RGB touch screen. Format 480x169 dots

Operating temperature -20° C to +50° C brightness adjustable, high, medium or low

Analogue Inputs

2 independent channels

24 bit sigma-delta ADCs

Excitation 5V DC

Input 8 load cells per channel

8x 350 Ohms. 115 mA per channel

Max input signal: +/-19.0625mV

Input resistance: 120-1000Ohms

Sample rate 10SPS

Resolution (ENB) 18 bits (19.5 bits)

Alarm Outputs

Alarm 1 supply voltage, high side switch only alarm 2 supply voltage, high side switch only

RS485 Serial

Baud rate fixed at 9600, n, 8,1 connector M12 - 4 pin (to be added)

RS232 Serial

Baud rate fixed at 9600, n, 8,1 options: printer or format protocol

Connector 9 way D connector

USB2

Approvals

FT-30M is tested and certified for EMC compliance to Type Approval: UNECE Regulation 10 Revision 5 (R10.05). This regulation ensures electromagnetic compatibility of vehicles and electronic sub-assemblies used in vehicles.

FT-30M is compliant with VCA Whole Life Vehicle Type Approvals and has undergone rigorous vibration testing at accredited laboratories.

Enclosure

Housing material ABS

Total weight: 400 gr

Temperature Rating

-20° to +50° C

EMC classification

UN ECE R10.05

Internal Data Storage

65 Mb

Languages

En, De, Fr, Es, It, Pt

Flintec
Overview

What We Do

Our comprehensive range of strain gauge load cells and force sensors are highly reliable, accurate and cost effective. The combination of Flintec sensors and an extensive range of accessories and electronics allow our customers to install and create complete weighing systems.

For customers who require something unique, Flintec offer a fully project managed process of product development, producing sensors, hardware, electronics and software that are fully compliant with international standards and verification requirements. This process includes the manufacture of complete systems for industrial weighing scales and medical applications.

Customer Service

We pride ourselves on customer focused service. With offices across the world, we ensure that each customer is given a regional contact who can provide technical guidance and support whenever it is needed. We have a global network of highly skilled engineers who can help with complex system integration and customisation.

Flintec is a world leading manufacturer of precision weight measurement technologies designed for use across a diverse range of industrial sectors.

Our journey began in 1968 when two Swedish engineers established a weighing scale design company, creating unique scales and later developing innovative load sensors. The business quickly grew and expanded to the USA and Germany. Today we have offices and representatives around the world.

In 2008 the founder of Flintec passed ownership of the business to Indutrade AB (www.indutrade.se), a company listed on the Swedish stock market. Although ownership of the company has changed, we remain committed to our values of innovation, quality, precision and customer service.

Manufacturing

Since 1996 Flintec products have been manufactured in Sri Lanka. As demand grew, so did our manufacturing facilities. In 2006 our workforce expanded significantly with the opening of new state-of-the-art facilities. We currently employ over 800 highly skilled staff, manufacturing approximately 1 million sensors and 5 million strain gauges annually.

Our sensors are manufactured using highly precise machinery, and are continually checked for accuracy. Our strain gauges are manufactured by a dedicated team of highly skilled staff who ensure consistency and reliability. Each product manufactured by Flintec is rigorously tested and conforms to ISO9001 and ISO13485 requirements, ensuring quality and precision.

We are extremely proud of our manufacturing facilities and welcome any prospective customer to visit Sri Lanka to understand why our products are renowned for being well made and reliable.

Global Reach

With offices and product stock strategically placed across the world, Flintec are able to offer fast shipments to our customers, regardless of location.

If stock levels don't meet order requirements we can often mobilise our vast team of manufacturing staff to quickly meet the needs of our customers, offering priority manufacturing combined with either air or sea shipping.

Flintec is an Indutrade Company

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