FT-30M
On-board Weighing Indicator

quality + precision
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

Applying the FT-30M

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.
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.
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.

Waste Collection
Industrial Application

- 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.

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.

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.

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.

Compatibily
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.

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

Specifications
- Power
  - Voltage input: 9V to 32V DC
  - Consumption: 100mA at 24V DC
  - 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
- 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
- Approvals
  - FT-30M is tested and certified for EMC compliance to Type Approval: UN ECE 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.
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.

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.

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.

Global Reach

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.

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.