

FT-112D weighing indicator



product description

The FT-112D weighing indicator is a digital, high precision, multi-functional device for RC3D load cell connections. SmartAPP functionality allows for the indicator to be universally used in industrial weighing applications, including the food, pharmaceutical and chemical industries.

The indicator uses an intuitive text based menu guide, allowing for easy operation. Two versions are available with a stainless-steel housings that can be ordered with a flat profile for wall mounting or with a tilted profile for flat surface mounting. Both versions are rated to IP67 and can be purchased with specialist mounting kits.

Included in the scope of delivery is a LPK24 box made of stainless steel with integrated surge protection. It serves as a power supply between the terminal and the connected digital load cells.

optional Interface / inputs and outputs

Profibus	Profibus DPV1. 9,6 kbits/s to 12Mbit/s aut. baudrate detection
Profinet	100 Mbit/s full-duplex, galvanically isolated
CANopen	10 kbit/s - 1 Mbit/s aut. baudrate detection
EtherNET/IP	10 Mbit/s or 100 Mbps, galvanically isolated
EtherCAT	100 Mbit/s full-duplex, galvanically isolated
CC-Link	156 Kbit/s or 10 Mbps, baudrate detection
Powerlink	100 Mbit/s, half-duplex
Digital Inputs / Outputs	Opto-isolated 4 digital input, 12 to 28V DC, 10mA / 5 free relay contacts, 250V AC or 30 VDC, 0.2A
Analogue Output	0-10VDC und 4-20mA
Modbus	RTU and TCP/IP

key features

EU Type approved for 10,000 intervals

Up to 16 x RC3D load cells

External power supply via LPK24 box 12VDC;1.3A

5 steps programmable adaptive filter

Standard Interface RS232C, RS485, Ethernet TCP/IP, USB

SD card slot for alibi memory

SmartAPP function

Simple upgrade of available options

Calibration with eCal or test weights

Power supply 100...240V AC

LPK24 box with integrated surge protector

IP 67 protection class



specifications

Accuracy

Accuracy class	III
EU Type approved	10,000 intervals

Display and Keyboard

Display	LCD display with multicolour backlight up to 999,999 counts not legal for trade / 10,000 counts legal for trade, 6 digits 22mm height
Keyboard	Membrane with tactile feedback
Key lock	Basic weighing related key can be locked against unauthorized access

A/D Converter

Type	24 bit Delta-Sigma with integral analogue and digital filters
Conversion rate	Up to 800 measurement values per second
Resolution	Internal up to 16 million counts
Linearity & temperature coefficient	Within 0.0015% FS; ≤ 2 ppm/°C

Scale Calibration & Functions

Calibration	Calibration is performed by application weights or via (eCal)
Digital filter	5 step adjustable adaptive Filter
Weighing functions	Taring, zeroing, auto zero tracking, motion detection, auto zero at power up, tare status saves at power off, increased resolution, automatic tare and clear, temporary gross indication, unit change
Process functions	Labelling, piece counting, check weighing, classifying, filling, free setpoints, functional outputs, totalization, livestock weighing
Optional digital inputs / digital outputs	4x isolated digital inputs 12...28V DC, 10mA / 5x relay contact 250V AC or 30V DC, 0,2A
Memory	ID1, ID2, Limit values for weighing, Limit values for piece counting, average piece weight of Item memory, preset tare memory. Each memory size has capacity for 500 records; optional alibi memory for 999,999 records
SD card	SD card slot for alibi memory

Digital Load cells

Excitation	12V DC, 1.3A external LPK4 box
Number of load cells	Up to 16 x RC3D load cells
Connection	4-wire technology. Cable length 500m
Protocol	RS485 halfduplex with digital RC3D load cell

Communication & Interfaces

Serial interfaces	2x RS232C, RS 485 , Ethernet TCP/IP, USB
Optional interfaces	EtherNet/IP, Profibus, Profinet, CANopen, EtherCAT, CC-Link, Powerlink, analogue output

Power Supply, Environment & Enclosure

Power Supply	100...240V AC max. 75mA
Operation temperature & humidity	-10°C to +40°C legal for trade; 85% RH max, non-condensing / -15°C to +50°C not legal for trade
Dimensions (W x H x D)	Desk type 250 x 180 x 85mm, Wall type 260 x 200 x 64mm
Enclosure	IP67, Stainless steel
Accessory	Wall type, 2-D Wall type, Column mounting set

Dimensions and specifications are subject to change without notice.