

FT-10 Flow weight indicator



product description

The FT-10 Flow is an interval dosing controller used for flow control and material totalisation. This device also provides information on the estimated material flow rate over 24 hours and over the day's total weight. It offers four opto-isolated and two non-isolated digital inputs as well as five relay contacts as outputs. The weighing controller can also be used to weigh the entire production batch, the total weight and week total weight.

OIML approved to accuracy class III, 10,000 intervals. The interface has five membrane-covered mechanical buttons and a variety of status indicators that provide information on the operating conditions. The large 6-digit LED display (13.5mm tall) provides good visibility in poor light conditions.

optional interface

Ethernet TCP/IP 10 Mbit/s, half-duplex

Profibus Profibus DPV1. 9,6 kbits/s to 12Mbit/s aut Baud rate detection

Profinet 100 Mbit/s full-duplex, galvanically isolated

CANopen 10 kbit/s - 1 Mbit/s aut. baud rate detection

EtherNET/IP 10 Mbit/s or 100 Mbits, galvanically isolated

EtherCAT 100 Mbit/s full-duplex, galvanically isolated

CC-Link 156 Kbit/s or 10 Mbits, baud rate detection

key features

OIML approval to 10,000 intervals

Internal resolution of 16,000,000 counts, display resolution of up to 999,000 counts

Approved sensitivity of 0.4 μ V/e

Conversion rate of 1,600/s

Serial Interface RS232C, RS485

4-wire or 6-wire technology

4x isolated digital inputs (24 V) and 5x isolated digital outputs

10 step adjustable digital adaptive filter

Test weights or eCal calibration

Display kg or lb

Flow rate control, accumulation control, By-pass function, control of emptying pipe



RoHS
compliant



specifications

Accuracy class	III
EU Type approved	10 000 intervals

display and keyboard

Display	6 digits, 7 segments, LED red, 13.5mm high
Keyboard	Five membrane covered keys with tactile feedback
Key lock	The indicator keys can be locked to prevent unauthorised access

a/d converter

Type	24-bit Delta-Sigma with integrated analogue and digital filters
Conversion rate	Up to 1,600 measurement values per second
Minimum input sensitivity	0.1µV/d (non legal for trade) 0.4µV/d (legal for trade)
Analogue input range	-18mV to 18mV
Resolution	Internal up to 16 million counts, display up to 999,999 counts not legal for trade / 10,000 counts legal for trade
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	10 step adjustable adaptive Filter
Weighing functions	Tare, zero, motion detection, auto zero tracking, total weight
Process functions	Flow rate control, emptying pipe control, by-pass functions, totalising control, daily total, estimated next total, batch total, turn total, weekly total
Digital inputs / digital outputs	4x isolated digital inputs 12...28 VDC, 10 mA / 5x relay contact 250 VAC or 30 VDC, 1 A

load cells

Excitation	5VDC max. 125mA
Number of load cells	Up to 8 load cells (350Ω) or 25 load cells (1,100Ω) in parallel
Connection	4-wire or 6-wire technology. Cable length 1,000m/mm ² for 6-wire connection

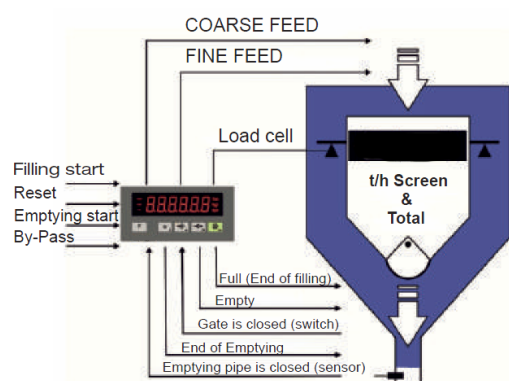
communication & serial interface

RS232C	1,200...115,200 baud, 8 N1 / 7E1 / 701
RS 485	1,200...115,200 baud, 8 N1 / 7E1 / 701
Modbus RTU	RS - 485, 1,200...115,200 baud, programmable

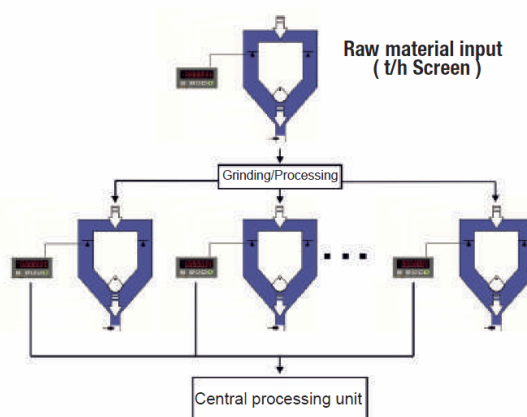
power supply & environment & enclosure

DC Power Supply	12...28VDC max. 300mA
Operation temperature & humidity	-10°C to +40°C legal for trade; 85% RH max, non-condensing /-15°C to +55°C not legal for trade
Dimensions	48 x 96 x 100mm
Enclosure	IP65, Stainless steel front panel, aluminium body, stainless steel rear panel.

single application



multiple applications



Dimensions and specifications are subject to change without notice.