

PRELIMINARY

WEIGHING INDICATOR



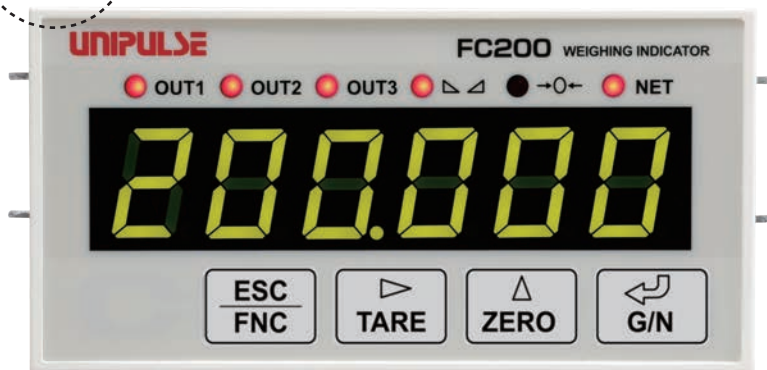
For simpler and more accurate weighing systems!

FC200

RoHS DIN 96x48

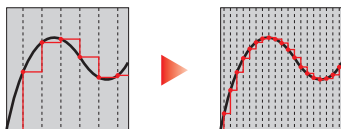
- Compact size: DIN 96 x 48mm
- High-speed A/D conversion at 300 times/sec.
for weighing systems like bagging machines and hopper scales.
- RS-485 as standard serial interface with multi-drop capability:
up to 32 control units on the same network!

REAL
SIZE



High sampling rate & resolution

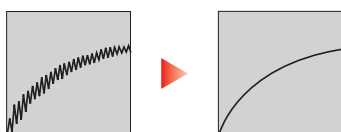
High-Speed A/D conversion and powerful digital processing capability of 300 times/sec.
High resolution of 1/10000 in all input range.
(internal 24bit)



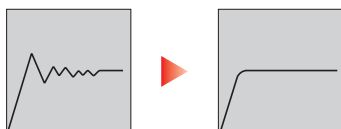
Measurement can be performed quickly and precisely due to high speed A/D conversion.

High performance filter

As it is resistant to vibration, measurement can be performed quickly and precisely.



Low-pass filter: reduce effects of electrical noises.



Moving average filter: reduce vibration effects

Small and lightweight

96Wx48Hx132.5Dmm
Approx. 450g

Improved visibility!

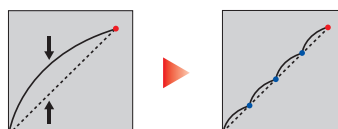
6-digits green LED display in 14 mm height
& six status lights.

Equivalent input calibration

Theoretical calibration can be performed easily by registering the capacity and rated output of load cells.

Multipoint calibration (linearization)

Three additional points can be defined in the middle between zero and span for better linearity.

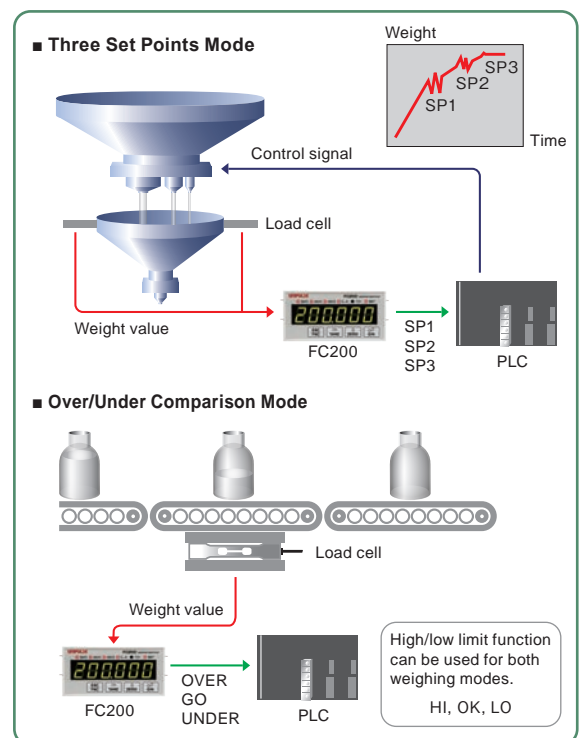


Zero tracking function

Slow zero drift or shift of zero point due to temperature change etc. is automatically corrected.

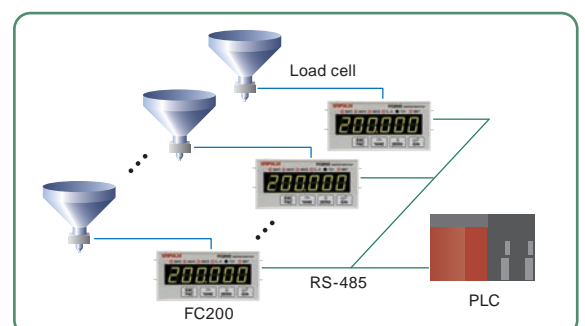
Application example

High/low limit function and two weighing modes:
(Three Set Points Mode & Over/Under Comparison Mode)



RS-485 as standard interface.

RS-485 (Modbus-RTU) multi-drop connection:
maximum of 32 control units on the same network!



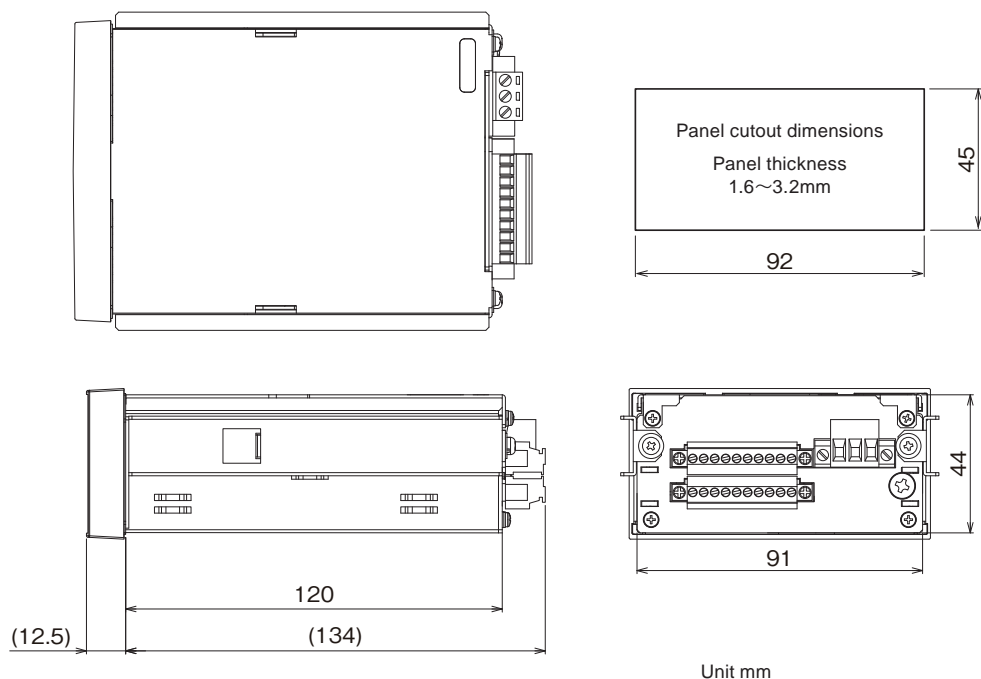
PRELIMINARY

Specifications

Analog	Excitation voltage	DC5V±5% Output current within 120mA Ratiometric method (Up to 8 350Ω load cells can be connected in parallel)
	Signal input range	−7.0 ~ +7.0mV/V
	Zero adjustment range	−7.0 ~ +6.7mV/V
	Span adjustment range	+0.3 ~ +3.0mV/V
	Gain correction	Up to three point multi-point calibration is possible using linearization function
	Accuracy	Non-linearity: within 0.01% F.S. Zero drift: within 0.001% F.S./°C Gain drift: within 5ppm F.S./°C
	A/D converter	Speed: 300 times/sec Resolution: 24bit (binary)
	Min. indicated resolution	1/10000
	Secondary calibration	Equivalent calibration
	Display unit	Character height 14mm Numbers display by 7-segment green LEDs (6 digits) Minus sign displayed on most significant digit
Display	Display frequency	Selectable from 3, 6, 13, 25 times/sec (system speed is 300 times/sec.)
	Min. scale division	Can be set from 1 to 50
	Decimal point	Select from None, 0.0, 0.00, 0.000 (Zero tracking display based on decimal place)
	Over scale display	A/D converter input over LOAD Net weight > 99999 OFL1 Gross weight > 99999 OFL2
	Center zero	A true zero point or the center of each value is displayed.
	Status display	OUT1 / OUT2 / OUT3 / Δ / \rightarrow 0 \leftarrow / NET 6 red LEDs

Setting	Setting method	Setting by membrane key operation or setting from the host via RS-485 is possible
	Setting value memory	Memory using NOVRAM (non-volatility RAM)
	Protect of set value	Protection is possible using a LOCK setting
Interface	RS-485 communication interface	
	Message format	Selectable from Modbus-RTU or UNI-Format
	Signal level	RS-485-compliant, two-wire
	Transmission distance	Approx. 1km
	Transmission mode	Asynchronous, half-duplex communication
	Transmission speed	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115.2k bps selectable
	Bit configuration	Start bit: 1bit Character length: 7 or 8 bits selectable (8 bits for Modbus-RTU) Stop bit: 1 or 2 bits selectable Parity bit: None, odd, or even selectable Delimiter: CR or CR+LF selectable
	Code	Binary (for Modbus-RTU) ASCII (for UNI-Format)
General specification	Power supply voltage	DC24V (±15%)
	Power consumption	4W typ
	Operating conditions	Temperature: Operating temperature range −10 ~ +40°C Storage temperature range −20 ~ +60°C Humidity: 80%RH or less (non-condensing)
	Dimensions	96 (W) x 48 (H) x 132.5 (D) mm (Projections excluded)
	Weight	Approx. 450g
Attachment	Operation manual	

External dimension



*Please note that specifications or designs shown in this catalog may vary due to our continuous product improvement activities.

www.unipulse.com/en/

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