F701-P

GLOBAL STANDARD MODEL
BASIC PERFORMANCE DESIGN
WEIGHING INDICATOR

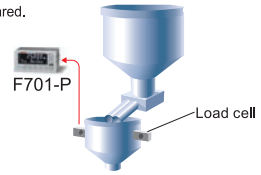
DIN 192×96 RoHS2

- Comparison modes convenient for weighing control

Upper/lower limit comparison mode
Convenient for checkers. Weight values and upper/lower limit setting values are compared.

Over/under comparison mode
Over and under of weight values can be judged by setting a target value.

Discharging control mode
A fixed amount can be accurately discharged from a tank like a hopper.



- Accumulation and calculation function
  Automatically accumulate the weight (gross weight / net weight) upon accumulation of weighing.
- High-speed sampling and high resolution
  With the capacity of high-speed A/D conversion of 300 times/sec. and high-speed digital processing, a display resolution of 1/10000 is assured across an entire input range.
- Digital low pass filter
  High-speed, high-accuracy measurement is achieved because strong in the external vibration.
- Selectable from sink type and source type.
  Type of external I/O signal : Sink type / Source type selectable.
- Standard built-in RS-485
  Selectable from Modbus-RTU and original format.
- Free power; 100 to 240 V AC is supportable without switching.

Specifications

Analog	Excitation voltage	DC5 V±5% Output current: Within 90 mA Ratio metric type (Up to 6 350 Ω load cells can be connected in parallel.)
	Signal input range	−0.5 to +3.0 mV/V
	Zero adjustment range	−0.2 to +2.0 mV/V Automatic adjustment by digital operation
	Span adjustment range	0.3 to 3.0 mV/V Automatic adjustment by digital operation
	Minimum input sensitivity	0.15 μV/count
	Accuracy	Non-linearity: Within 0.01% FS Zero drift: 0.025 μV/℃ RTI typ Gain drift: 1 ppm/℃ typ
	A/D converter	Conversion rate: 300 times/sec. Conversion resolution: 24 bit (binary)
Display	Display	18.5 mm in character height, Numerical display on LCD (7 digit) Sub display: 7.3 mm in character height (14 digit)
	Indicated value	5 digit sign: negative display at the highest digit
	Accumulation value	9 digit * This can be changed to "Accumulation count (4 digit)" and "Final(5 digit)".
	Display frequency	Selectable from 1, 2, 5, 10, 20 times/sec. (System speed is 300 times/sec.)
	Status display	COMPL./ SP3/ SP2/ SP1/ HI/ GO/ LO/ ZT/ NZ/ HOLD/ ZALM/ STAB/ TARE/ NET/ GROSS/ CZ
External signal	You can specify whether Sink type or Source type when order the F701-P.	
	Output signals (4 points)	Select from COMPL./ SP1/ SP2/ SP3/ HI/ GO/ LO/ STAB/ WEIGHT ERROR/ TOTAL FINAL At signal ON, output transistor ON. * External voltage must be prepared separately by customer.
	Input signals (4 points)	Select from G/N/ D/Z ON/ TARE ON/ TARE OFF/ ACCUMULATION CLEAR/ HOLD/ JUDGE Contact (relay, switch etc.) or non-contact (transistor, open collector etc.) can be connected. * External voltage must be prepared separately by customer.
Interface	RS-485 communication interface (Select from Modbus-RTU and original format)	
General specification	Power supply voltage	AC100 to 240 V (+10%−15%) (free power source 50/60 Hz)
	Power consumption	2 W typ
	Inrush current	1.5 A, 0.7 msec: AC 100 V average load condition (cold start at room temperature) 2.5 A, 0.7 msec: AC 200 V average load condition (cold start at room temperature)
	Operating conditions	Temperature Operation: −10 to +40℃ Storage: −20 to +85℃ Humidity 85% RH or less (non-condensing)
	Dimension	192(W) × 96(H) × 102(D) mm (not including protrusions)
	Weight	Approx. 1.3 kg
Attachment	AC input cord (Nominal rating 125 V) 3 m..... 1 Jumper line..... 2 Terminator..... 1 Rubber packing..... 1 Operation manual..... 1	Load cell input connector terminal block *1..... 1 AC power input terminal block *1..... 1 External input/output signal terminal block *1..... 1 *1 Already mounted on the main unit
Optional accessories	CN80: Load cell input connector terminal block (Same accessory as the attached one) CN86: AC power input terminal block (Same accessory as the attached one) CN88: External input/output signal terminal block (Same accessory as the attached one)	

* Please note that there are possibilities of individual differences in a color tone on display devices such as LEDs, fluorescent display tubes and LCDs due to manufacturing process or production lots.

Structure of product code

F701-P ① □ ②

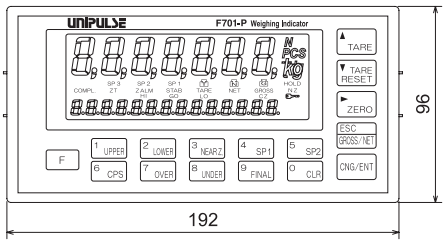
① Standard unit

② External signal

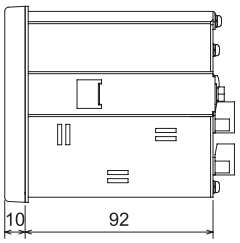
Sign	External signal
SI	Sink type
SO	Source type

External dimension

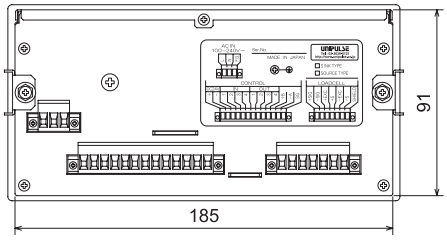
(Front)

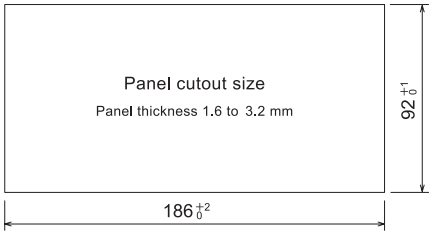


(Side)



(Rear)





Unit: mm