

UNIPULSE

F701-P

Global standard model Basic performance design
WEIGHING INDICATOR

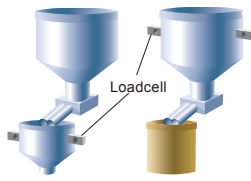


RoHS DIN 192x96

Practical unit that achieved functions and operability for weighing.

F701-P is a weighing indicator with convenient functions and operability for weighing such as a high-precision amplifier, fast-sampling, High-Low limit comparison function, weighing function and accumulation functions.

Comparison modes convenient for hopper and packer scales



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. Based on this accumulated weight, it is able to perform calculations such as maximum, minimum, average and standard deviation calculations.

Main & sub display

Main (7 digit) : Easily readable liquid crystal module of character height 18.5mm. Weight value (gross weight / net weight) is displayed.

Sub (14 digit) : Accumulation value or accumulation frequency or final value are displayed.

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

100V to 240V AC is supportable without switching.

Removable two-piece terminal block

For loadcell, power supply, and external I/O connection, a space-saving screw type terminal block is adopted. It is a two-piece type removable from the main body.



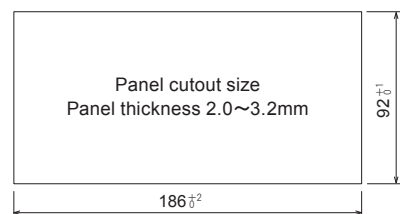
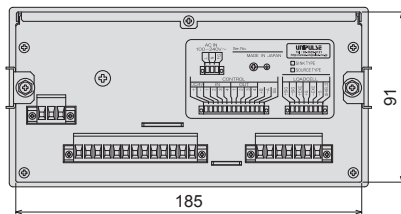
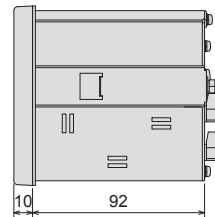
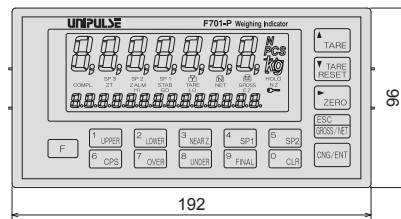
Loadcell input connector terminal

Specification

| | | |
|-----------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analog | Excitation voltage | DC5V±5% Output current: within 90mA |
| | Signal input range | Ratio metric type (Up to six 350Ω load cells can be connected in parallel.) -0.5 ~ 3.0mV/V |
| | Zero adjustment range | -0.2 ~ 2.0mV/V Automatic adjustment by digital operation |
| | Span adjustment range | 0.3 ~ 3.0mV/V Automatic adjustment by digital operation |
| | Minimum input sensitivity | 0.15μV/count |
| | Accuracy | Non-linearity: within 0.01%/FS Zero drift: 0.025μV/°C RTI typ Gain drift: 1ppm/°C typ |
| Display | A/D converter | Conversion rate: 300 times/sec. Conversion resolution: 24bit (binary) |
| | Minimum indication resolution | 1/10000 |
| | Display | 18.5mm in character height. Numerical display on LCD(7 digit) Sub display: 7.3mm 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 | Select from 1, 2, 5, 10, 20 times/sec.(The system speed is 300 times/sec.) |
| Setting | Capacity | 5 digit |
| | Min. scale division | Setting allowable in the range of 1 ~ 50. |
| | Decimal point | Select from 0, 0.0, 0.00, 0.000 |
| | Over display | LOAD: A/D converter input over, OFL1: Net Over, OFL2: Capacity + 9 scale division, OFL3: Gross Over |
| | Center zero | A true zero point or the center of each value is displayed. |
| | Status display | COMPL / SP3 / SP2 / SP1 / HI / GO / LO / ZT / NZ / HOLD / ZALM / STAB / TARE / NET / GROSS / CZ |
| External signal | Setting method | Settings are made by operating the membrane keys. Also, settings can be made from a host computer through the RS-485 interface. |
| | Memory of set value | F-RAM (nonvolatile RAM) |
| | Protection of set value | Software LOCK can be set to parameter such as "Set value" and "Calibration". |
| | Setting item | Upper limit / Lower limit / Near zero / Set point 1 / Set point 2 / Compensation / Over / Under / Final / Comparison inhibit time / Judging time / Complete output time / Weighing function 1 / Weighing function 2 / Tare setting / Tare display / Digital low pass filter / Moving average filter / Motion detection / Zero tracking (Period) / Zero tracking (Range) / Total comparison selection / Total limit (high 4 digit) / Total limit (under 5 digit) / Count limit / Key invalid / LOCK / Input selection / Output selection / Password / Balance weight value / Capacity / Min. scale division / DZ regulation value / Display selection / Gravitational acceleration / Zero calibration / Span calibration / RS-485 I/F setting / Communication type / RS-485 ID / Transmission delay time |
| | You can specify whether PNP (Source) type or NPN (Sink) 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. |
| Interface | 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. |
| | RS-485 communication interface | (Select from Modbus-RTU and original format) |
| | Power supply voltage | AC100 ~ 240V (+10%~15%) (free power source 50/60Hz) |
| | Power consumption | Approx. 5W |
| | Inrush current | 1.5A, 0.7mSec: AC100V average load condition (cold start at room temperature) 2.5A, 0.7mSec: AC200V average load condition (cold start at room temperature) |
| | Operating conditions | Temperature Operation: -10 ~ +40°C Storage: -20 ~ +85°C Humidity 85%RH or less (non-condensing) |
| Attachment | Dimension | 192 (W) × 96 (H) × 102 (D) mm (Projections excluded) |
| | Weight | Approx. 1.3kg |
| | AC input cord (Nominal rating 125V) 3m..... | 1 Rubber packing..... |
| | Jumper line..... | 2 Operation manual..... |
| | Terminator..... | 1 |
| | Optional accessories | CN80: Loadcell input connector terminal (7P) CN82: Power supply connector terminal (3P) CN83: Control connector terminal (13P) |

Dimension

Unit:mm



* Please note that the specifications and design described in this catalog are subject to change without notice due to product improvements.

<http://www.unipulse.com/en/>

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