F701 + ENHANCED VERSION WEIGHING INDICATOR



CE ROHS2 DIN 192×96

High sampling rate & resolution

High-Speed A/D conversion and powerful digital processing capability of 500 times/sec.

High resolution of 1/10000 in all input range.

* It can be changed to 100times/sec.



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

Auto filter adjustment

Capable of adjusting filter automatically according to an operating condition. Helpful for setting at the test operation.



Digital low pass filter

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

* Conventional analog filter is also selectable

Displaying accumulated value with one-touch

Accumulated value can be shown with one-touch

Set value restoration

Set value can be restored, in case set value is changed by mistake.



A weighing indicator F701 is functionally improved !! Superb performance is achieved with consideration for convenience at the site.

- High performance filter
- I/O board can be easily replaced on site

Recovery form temporary stop / power failure

Temporary measurement stop, and Operation restart mode are available. Measurement can be performed continuously from the middle.



Equivalent calibration

Equivalent calibration can be made easily by just inputting rated capacity and output of loadcell to F701+ with key button.



Connecting with printer by using RS-232C communication

Time data can be output for efficient data management.

Various optional interface

D/A converter, BCD output, RS-232C, RS485(Selectable from Modbus-RTU and UNI format), PROFIBUS-DP are available.

Sink type / source type are available

Type of I/O signal are selectable form Sink and Source.

| Analog | Excitation voltage Signal input range Zero adjustment range Min. input sensitivity Accuracy A/D converter Min. indicated resolution Secondary calibration | DC10V45% Output current: within 120mA Remote sense type (Up to 4 350 load cells can be connected in parallel) -0.5 to 3.0mV/V Automatic adjustment by digital processing -0.5 to 2.0mV/V Automatic adjustment by digital processing 0.3 to 3.0mV/V 0.3µV/count Non-linearity: within 0.01%/FS Zero drift: within 0.2µV/C RTI Gain drift: within 15ppm/C Speed: Selectable from 500 times/sec, 100 times/sec Resolution: 24bit 1/10000 Equivalent calibration Min. indicated resolution during secondary calibration: 1/1000 (room temperature) |
|---------|--|--|
| Filter | Analog Digital | Low-pass filter Selectable from 2, 4, 6, 8Hz (-12dB/oct) Low-pass filter Selectable from OFF, 1, 1.5, 2, 2.5, 3, 4, 5Hz |
| Display | Display unit Display value Display frequency Capacity Min. scale division Over scale display Center zero Unit Status display | Character height 18.5mm Numerical display (7 digits) by fluorescent display tube 5 digits, Sign; Minus sign displayed on most significant digit Selectable from 3, 6, 13, 25 times/sec 5 digits Can be set from 1 to 100 LOAD: A/D converter input over, —LOAD: A/D converter input over, —LOAD: A/D converter input minus over, OFL1: Net weight over, OFL2: Capacity +9 scale division, OFL3: Gross weight over A true zero point or the center of each value is displayed. Selectable from Kg/g/t/lb/N/None SP3/SP2/SP1/SP1/LOCK/2T/LALM/STAB/TARE/NET/GROSS/ HI LIM/HI/GO/LO/LO LIM/HOLD/NZ/CZ |
| Setting | Setting method Memory of set value Protect of set value Setting item | Settings are made by operating the membrane keys. Setting by RS-232C interface (option) and RS-485 interface (option) is also possible Calibration value and a part of set value: NOV.RAM (nonvolatile RAM) Other set values: F-RAM (nonvolatile RAM) Protect can be set by Lock switch and Lock parameter. Upper limit, Lower limit, Near zero, Set point 1, Set point 2, Compensation, Over, Under, Final, Comparison inhibit time, Judging time, Complete output time, Compensation feeding time, Number of times for AZ, Number of times for judging, Auto free fall compensation regulation value, Tare setting, Weighing function 1, Weighing function 2, Weighing function 3, Sequence mode, Function key inhibited, Filter, Motion detect, Zero tracking, Setting value LOCK, Balance weight value, Capacity, Min. scale division, Net over, Gross over, DZ regulation value, Function selection, Compensation for gravitational acceleration, Zero calibration, Span calibration, Equivalent calibration, Input selection, Output selection, Moving average filter, Restart setting set point 1, Peatert setting set point 2, Beater Setting Setting set point 3, Beater Setting set point 4, Beater Setting set point 4 |

| External signal | You can specify whether Output signals NZ, SP (12 points) Stable, Output 'PNP (: Input signals (8 points) Input s Contact ' PNP (: | PNP (Source) type or NPN (Sink) type when order the F701+. 1, SP2, SP3, Under, Over, Lower limit, Upper limit, Output selection 1, Output selection 2, Output selection 3 turns ON when transistor is ON. source) type: External voltage must be prepared separately by customer. Z, One-touch tare subtraction, Input selection 1, selection 2, Input selection 3, Input selection 5 relay, switch etc.) or non-contact (transistor, open collector etc.) can be connected. source) type: External voltage must be prepared separately by customer. | |
|--------------------------|--|--|--|
| Interface | SIF: 2-wire type serial interface 232: RS-232C communication interface (Option) *1 485: RS-485 communication interface (Selectable from Modbus-RTU, UNI format) (Option) *1 BCO: BCD parallel data output interface (Option) *2 DAC: D/A converter (Option) *2 PRF: PROFIBUS interface (Aption) *PROFIBUS-DPV0 *2 *2 optional interface can be added in addition the standard interface. With * (mark): only 1 option is available. With *2(mark): only 1 option is available. | | |
| General specification | Power supply voltage Ad Inrush current 1. Power consumption 7. Operating conditions 0 Dimensions 19 Weight Ag | C100 to 240V (+10% -15%) (free power source 50/60Hz) SA, 1ms AC100V average load condition (cold start at room temperature) SA, 1ms AC200V average load condition (cold start at room temperature) V typ. beration temperature:10 to +40°C Storage temperature:20 to +85°C umidity: 85%RH or less (non-condensing) 2 (W) x96 (H) x160 (D) mm (Projections excluded) bprox. 1.5kg | |
| Attachment | AC input cord (Nominal rating 125V) 2m x1, Load cell connector x1, Mini-screwdriver x1, 57 series 24p connector for external input / output x1, Operation manual x1, BCD output connector x1 (with BCD output option) , D/A converter connector x1 (with D/A converter option) | | |
| Accessories | CAAC2P-P2: CAAC3P-CEE7/7-P1.5: CA4131: CA4131: CA4230: CA4311: CN3P-2P: CN10: CN21: CN21: CN23: CN34: | AC input cord 2m AC input cord (Voltage resistance:250V) 1.5m (6-wired) cable with JRC connector at one end 3m JRC-PRC (6-wired) conversion relay cable 0.3m JRC-PRC (6-wired) conversion relay cable (4-wired to 6-wired) (for 520A use) 1m 3P-2P converter plug for AC input cord Loadcell connector (JRC connector) 57 series 36p connector for BCD output 57 series 24p connector for RS-232C | |

Structure of product code

2

F701+ 1

③Interface

| ①Standard unit | | | | | | |
|----------------|--------------|--|--|--|--|--|
| ②I/O output | | | | | | |
| 0:00 | Outrast toma | | | | | |

| ②I/O output | | | | | | |
|-------------|----------|------------------|--|--|--|--|
| | Sign | Output type | | | | |
| | Standard | Sink type(NPN) | | | | |
| | ISC | Source type(PNP) | | | | |
| | | | | | | |

Sign Interface

3

| SIF | |
|---|---|
| nterface can be added the standard interface. | |
| RS-232C | *1 |
| RS-485 (Modbus-RTU / UNI-format) | *1 |
| BCD output (Sink type) | *2 |
| D/A converter | *2 |
| PROFIBUS | *2 |
| | SIF nterface can be added the standard interface. RS-232C RS-485 (Modbus-RTU / UNI-format) BCD output (Sink type) D/A converter PROFIBUIS |

*1(mark): only 1 option is available. *2(mark): only 1 option is available.

External dimension

