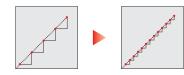
F701+ ENHANCED VERSION WEIGHING INDICATOR



High sampling rate & resolution

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

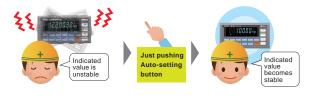
- High resolution of 1/10000 in all input range.
- * It can be changed to 100 times/sec.



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.

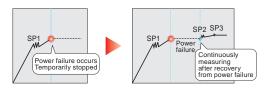


A weighing indicator F701 is functionally improved !! Superb performance is achieved with consideration for convenience at the site.

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

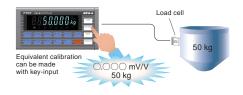
Recovery form temporary stop / power failure

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.



Specifications

Analog	Excitation voltage	DC10 V±5% Output current: Within 120 mA Remote sense type (Up to 4 350 load cells can be connected in parallel)
	Signal input range Zero adjustment range Gain adjustment range Min. input sensitivity Accuracy	-0.5 to +3.0 mV/V Automatic adjustment by digital processing -0.5 to +2.0 mV/V Automatic adjustment by digital processing 0.3 to 3.0 mV/V 0.3 µV/count Non-linearity: Within 0.01% FS Zero drift: Within 0.2 µV/C RTI
	A/D converter Min. indicated resolution	Gain drift: Within 15 ppm/ ² C Speed: Selectable from 500 times/sec., 100 times/sec. Resolution: 24 bit (binary) 1/10000
	Secondary calibration	Equivalent calibration Min. indicated resolution during secondary calibration: 1/1000 (room temperature
Filter	Analog Digital	Low-pass filter: Selectable from 2, 4, 6, 8 Hz (-12 dB/oct.) Low-pass filter: Selectable from OFF, 1, 1.5, 2, 2.5, 3, 4, 5 Hz
Display	Display unit Display value Display frequency Capacity Min. scale division Over scale display Center zero Unit Status display	Character height 18.5 mm 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 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/b/N/None SP3/ SP2/ SP1/ LOCK/ ZT/ ZALW STAB/ TARE/ NET/ GROSS/ HI LIW/ HI GOL (0/ LOL LIW HOL D/ 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 fail 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, Restart setting set point 2, Restart setting set point 3

External signal	You can specify whether PNP (Source) type or NPN (Sink) type when order the F701+. Output signals NZ, SP1, SP2, SP3, Under, Over, Lower limit, Upper limit, (12 points) Stable, Output selection 1, Output selection 3 Output signals RVP (source) type: External voltage must be prepared separately by customer. Input signals G/N, D/Z, One-touch tare subtraction, Input selection 1, Input selection 3, Input selection 1, Input selection 5 (8 points) Contact (relay, switch etc.) or non-contact (transistor, open collector etc.) can be connected. * PNP (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-486 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 (Option) * PROFIBUS-DPV0 *2 2 optional interface can be added in addition the standard interface. With *1 (mak): only 1 option is available. With *2 (mak): only 1 option is available.				
General specification	Power supply voltage AC 100 to 240 V (+10%-15%) (free power source 50/60 Hz) Inrush current 1.5 A, 1 ms AC 100 V average load condition (cold start at room temperature) 2.5 A, 1 ms AC 200 V average load condition (cold start at room temperature) Power consumption 7 W typ. Operating conditions Operation temperature: -10 to +40°C Storage temperature: -20 to +85°C Humidity: 85% RH or less (non-condensing) Dimensions 192(W) x 96(H) x 160(D) mm (Projections excluded) Weight Approx. 1.5 kg				
Attachment	AC input cord (Nominal rating 125 V) 2 m ×1, Load cell connector ×1, Mini-screwdriver ×1, 57 series 24 p connector for external input/output ×1, Operation manual ×1, BCD output connector ×1 (with BCD output option), D/A converter connector ×1 (with D/A converter option)				
Accessories	CAAC2P-P2: AC input cord 2 m CAAC3P-CEE7/7-P1.5 AC input cord (Voltage resistance: 250 V) 1.5 m CA4131: CAPCEE7/7-P1.5 CA4230: JRC-PRC (6-wired) conversion relay cable 0.3 m CA4231: JRC-PRC (6-wired) conversion relay cable 0.3 m CA4311: JRC-PRC (6-wired) conversion relay cable (4-wired to 6-wired) (for 520A use) 1 m CN3P-2P: 3P-2P converter plug for AC input cord CN10: Loadcell connector) CN21: 57 series 36 p connector for BCD output CN34: D-Sub 9 p connector for 8X-232C				

Structure of product code

F701+ 1

2 3

③ Interface

1 Standard unit

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

Sign	Interface				
Standard	SIF				
2 optional interface can be added in addition to the standard interface.					
232	RS-232C	*1			
485	RS-485 (Modbus-RTU / UNI-format)	*1			
BCO	BCD output (Sink type)	*2			
DAC	D/A converter	*2			
PRF	PROFIBUS	*2			

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

External dimension

