

F701-S

GLOBAL STANDARD MODEL
HIGH PERFORMANCE DESIGN
WEIGHING INDICATOR



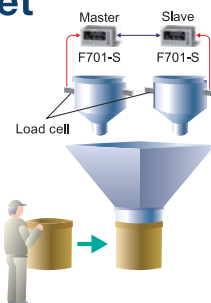
- Ample sequencing functions for feeding, discharging, and bagging weighing

Feeding/Discharging weighing control function

Equipped with various sequences that can directly control charge gates and discharge gates from this unit by just giving a weighing command.

Bagging weighing control function

Equipped with convenient functions for bagging such as Bag Clamp signal output, dual-alternate-discharge function.



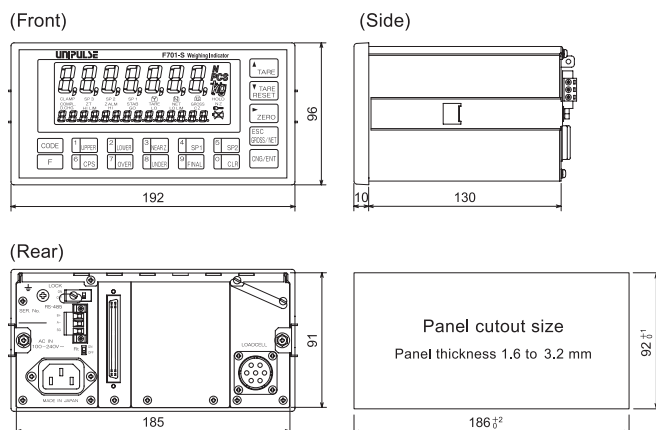
- Code memory and Accumulation function
Up to 8 sets of parameters (e.g. FINAL) can be stored.
A unit can handle 8 types of material mixing control and accumulation record.
- Digital low pass filter
High-speed, high-accuracy measurement is achieved because strong in the external vibration.
- High-speed 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. 1/6000 (when OIML R76-1-compliant)
- DIN-size 192 x 96 for easy installation
- Selectable from sink type and source type.
Type of external I/O signal: Sink type / Source type selectable.
- Various interfaces
Standard built-in RS-485
(Selectable from Modbus-RTU and original format.)
DAC, BCD, RS-232C, DeviceNet, PROFIBUS-DP, CC-Link are available as options.
- 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 load cells can be connected in parallel.)
	Signal input range	-0.5 to +3.0 mV/V 0 to 3.0 mV/V (when OIML R76-1-compliant)
	Zero adjustment range	Automatic adjustment by digital operation -0.2 to +2.0 mV/V, 0 to 2.0 mV/V (when OIML R76-1-compliant)
	Span adjustment range	Automatic adjustment by digital operation 0.3 to 3.0 mV/V, 0.6 to 3.0 mV/V (when OIML R76-1-compliant)
	Minimum input sensitivity	0.15 µV/count, 0.5 µV/count (when OIML R76-1-compliant)
Display	Accuracy	Non-linearity: Within 0.01% FS Zero drift: 0.025 µV/°C RTI typ Gain drift: 1 ppm/°C typ
	A/D converter	Conversion rate: 300 times/sec. Conversion resolution: 24 bit (binary)
	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)", "Final (5 digit)", "Code (1 digit)", "Total discharge count (6 digit)" and "Discharge count (5 digit)".
External signal	Display frequency	Selectable from 1, 2, 5, 10, 20 times/sec. (System speed is 300 times/sec.)
	Status display	CLAMP/ SP3/ SP2/ SP1/ HOLD COMPL/ ZT/ ZALM/ STAB/ TARE/ NET/ GROSS/ NZ D.CHG/ HI LIM/ HI/ GO/ LO/ LO LIM/ CZ/ LOCK
	You can specify whether Sink type or Source type when order the F701-S.	
	Output signals (16points)	SP1/ SP2/ SP3/ Complete/ Discharge/ Bag clamp/ Error selection 1,2/ Output selection 1 to 6/ Reserve 1,2 At signal ON, output transistor ON. * External voltage must be prepared separately by customer.
	Input signals (16points)	Operation permission/ Weighing start/ Stop/ Discharge command/ Manual discharge/ Discharge gate open/ Accumulation clear/ Input selection 1 to 6/ Code 1,2,4 Contact (relay, switch etc.) or non-contact (transistor, open collector etc.) can be connected. * External voltage must be prepared separately by customer.
Interface	485:	RS-485 communication interface (Select from Modbus-RTU and original format)
	232:	RS-232C communication interface (Option)
	BCO:	BCD parallel data output interface (Sink type) (Option)
	BSC:	BCD parallel data output interface (Source type) (Option)
	DAC:	D/A converter (Option)
General specification	ODN:	DeviceNet interface (Option)
	PRF:	PROFIBUS interface (Option) * PROFIBUS-DPV0
	CCL:	CC-Link interface (Option)
	Power supply voltage	AC100 to 240V (+10%~15%) (free power source 50/60 Hz)
	Power consumption	3 W typ
Attachment	Inrush current	2 A, 3 msec: AC 240 V average load condition (cold start at room temperature)
	Operating conditions	Operation temp.: -10 to +40°C Storage temp.: -20 to +85°C Humidity: 85% RH or less (non-condensing)
	Dimension	192(W) x 96(H) x 140(D) mm (not including protrusions)
	Weight	Approx. 2 kg
	Rubber packing	1
Optional accessories	CAAC3P-P2:	AC input cord 2 m
	CAAC3P-CEE7/7-P1.5:	AC input cord (voltage resistance: 250 V) 1.5m
	CA4131:	(6-wired) cable with JR connector at one end 3 m
	CA4230:	JR-PRC (6-wired) conversion relay cable 0.3 m
	CA4311:	JR-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:	Load cell connector (JR)
	CN34:	D-Sub9p connector for RS-232C
	CN51:	BCD output connector
	CN52:	FCN series I/O connector (with cover)
	CN57:	FCN series I/O connector (with diagonal cover)
	CN71:	CC-Link connector
	CN72:	Double row connector for CC-Link
	CND01:	DeviceNet connector

* 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.

External dimension



Unit: mm

Structure of product code

F701-S □ □ □ □
① ② ③

① Standard unit

② External signal

Sign	External signal
SI	Sink type
SO	Source type

③ Interface

Sign	Interface
Standard	RS-485

↓ 3 optional interface can be added in addition to the standard interface.

232	RS-232C
BCO	BCD output (Sink type)
BSC	BCD output (Source type)
DAC	D/A converter
ODN	DeviceNet
PRF	PROFIBUS
CCL	CC-Link

However, with * (mark), only 1 option is available.