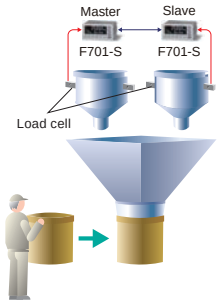
F701-S

GLOBAL STANDARD MODEL
HIGH PERFORMANCE DESIGN
WEIGHING INDICATOR

CE DIN 192×96 RoHS OIML



- 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.

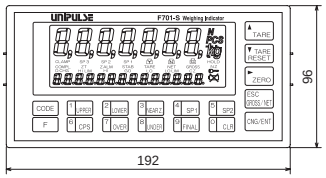
- Code memory and Accumulation function
  Up to 8 sets of parameters (e.g. FINAL) can be stored.
  A unit can handle 8 types of material mixing control and accumulation record.
- Digital low pass filter
  High-speed, high-accuracy measurement is achieved because strong in the external vibration.
- High-speed 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 192x96 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 ; 100V to 240V AC is supportable without switching.

Specifications

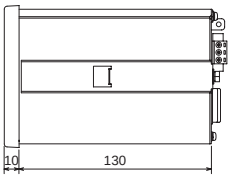
ANALOG	Excitation voltage	DC5V±5% Output current : within 90mA Ratio metric type(Up to 6 350Ω load cells can be connected in parallel.)
	Signal input range	−0.5 to 3.0mV/V 0 to 3.0mV/V (when OIML R76-1-compliant)
	Zero adjustment range	Automatic adjustment by digital operation −0.2 to 2.0mV/V , 0 to 2.0mV/V (when OIML R76-1-compliant)
	Span adjustment range	Automatic adjustment by digital operation 0.3 to 3.0mV/V , 0.6 to 3.0mV/V (when OIML R76-1-compliant)
	Minimum input sensitivity	0.15μV/count, 0.5μV/count (when OIML R76-1-compliant)
	Accuracy	Non-linearity : within 0.01%/FS Zero drift : 0.025μV/℃ RTI typ Gain drift : 1ppm/℃ typ
	A/D converter	Conversion rate : 300 times/sec. Conversion resolution : 24bit (binary)
DISPLAY	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)","Final (5 digit)" , "Code (1 digit)","Total discharge count (6 digit)" and "Discharge count (5 digit)".
	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
EXTERNAL SIGNAL	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	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) ODN : DeviceNet interface (Option) PRF : PROFIBUS interface (Option) ※PROFIBUS-DPV0 CCL : CC-Link interface (Option)	
GENERAL SPECIFICATION	Power supply voltage	AC100 to 240V (+10%−15%) (free power source 50/60Hz)
	Power consumption	3W typ
	Inrush current	2A, 3mSec: AC240V average load condition (cold start at room temperature)
	Operating conditions	Operation temp. : −10 to +40℃ Storage temp. : −20 to +85℃ Humidity : 85%RH or less (non-condensing)
	Dimension	192 (W) ×96 (H) ×140 (D) mm (not including protrusions)
	Weight	Approx. 2kg
ATTACHMENT	AC input cord (Nominal rating 125V) 2m .....1 Load cell connector .....1 Load cell connector rubber .....1 External I/O signal connector ..... 1 Rubber packing 1	Operation manual ..... 1 BCD output connector(with BCD output option) ..... 1 DeviceNet connector (with DeviceNet option) ..... 1 CC-Link connector (with CC-Link option) 1
OPTIONAL ACCESSORIES	CAAC3P-P2: AC input cord 2m CAAC3P-CEE7/7-P1.5: AC input cord (voltage resistance:250V) 1.5m CA4131: (6-wired) cable with JR connector at one end 3m CA4230: JR-PRC (6-wired) conversion relay cable 0.3m CA4311: JR-PRC (6-wired) conversion relay cable (4-wired to 6-wired) (for 520A use)1m 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	

External dimension

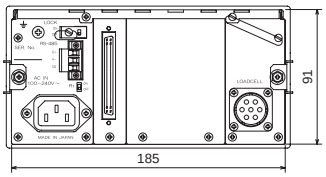
(Front View)

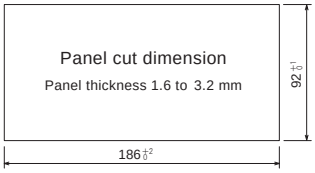


(Side View)



(Rear View)





Unit mm

Structure of product code

F701-S □ □□□
① ② ③

①Standard unit

②External signal

Sign	External signal
SI	Sink type
SO	Source type

③Interface

Sign	Interface
Standard	RS-485

↓ 3 optional interface can be added in addition 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.