F600AT

GRAPHIC DISPLAY / TOUCH PANEL TYPE WEIGHING INDICATOR

CC-Link
DeviceNet
DIN 96 RoHS2



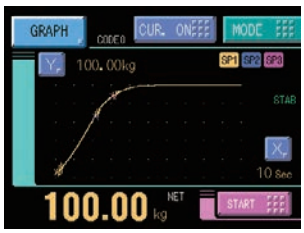
- 3.5 inch color LCD module & touch panel
  Weight is graphically displayed in real time. The color LCD and touch panel are equipped with backlight for improved visibility on guidance messages so that setting can be performed without the instruction manual.
- Memory for 8 types of codes
  Up to 8 kinds of setting values such as final value can be saved, the code selection can be done via external signal.
- Direct PLC connection
  CC-Link and DeviceNet can directry connect to PLC.
- DIN-size
  DIN-size 96×96 for easy installation

■ Setting Screen



Easy setting by touch panel

■ Waveform display



Real time weight trend display

Exclusive PC application for setup

With RS-232C interface that allow you to read, write, save and retrieve parameter settings with a PC.

Structure of product code

F600AT ① □ ② □ ③

① Standard unit

② Power supply

Sign	Power supply
Standard	AC 100 to 240 V (Free)
DC (CE)	DC 24 V

③ Interface

Sign	Interface
Standard	SI/F, RS-232C

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

CCL	CC-Link
ODN	DeviceNet
BCO	BCD output (Sink type)
DAV	D/A converter (Voltage)
DAI	D/A converter (Current)

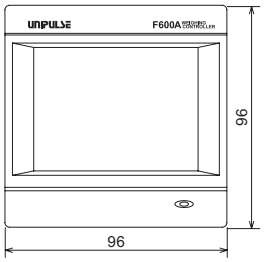
Specification

Analog	Excitation voltage	DC 10 V±5% Output current: Within 120 mA Remote sense type (Up to four 350 Ω load cells can be connected in parallel.)
	Signal input range	−0.2 to +3.0 mV/V
	Zero adjustment range	−0.2 to +3.0 mV/V Automatic adjustment by digital processing
	Gain adjustment	Automatic adjustment by digital processing
	Accuracy	Non-linearity: Within 0.02% FS±1 digit (At 3.0 mV/V input) Zero drift: Within 0.25 μV/℃ RTI Gain drift: Within 25 ppm/℃
	Analog filter	Bessel type low-pass filter (-12 dB/oct.) Selectable from 2, 4, 6, 8 Hz
	A/D converter	Speed: 100 times/sec. Resolution: 24 bit (binary)
Display	Display	TFT color LCD module Display area: 71(W) × 53(H) mm 320 × 240 dot
	Measured value	5 digits Sign: Minus sign on most significant digit
	Unit	Selectable from NONE, kg, t, g, N, lb
	Status display	NET/GROSS / HOLD / STAB / ZT / ZALM / NZ / HH*1 / HI*1*3 / GO*1 / LO*1*3 / LL*1 / SP1*2*3 / SP2*2*3 / SP3*2*3 / COMPLETE*2*3 / OVER*2 / UNDER*2 *1 Display at HI/LO limit comparison mode *2 Display at Final discharge-Over/Under comparison mode *3 Display at Final discharge-HI/LO limit comparison mode
External signal		Output signal (9 points) - At HI/LO limit comparison mode HH / HI / GO / LO / LL / NZ / ERR / STAB - At Final discharge mode SP1 / SP2 / SP3 / COMPLETE / OVER/HI / UNDER/LO / NZ / ERR / STAB Transistor open collector output. (Emitter = COM terminal) The output turns to LOW when the transistor turns ON. Vceo = 30 V (max), Ic = 50 mA (max)
		Input signal (11 points) D/Z / TARE ON / TARE OFF / HOLD or JUDGE / Feed/Discharge / Gross/ Net switching / CODE select / KEY LOCK / START / STOP ON when shorted with COM terminals by contact (relay, switch, etc.) or non-contact (transistor, TTL open-collector output, etc.) Ic = 10 mA or lower
Interface		SIF :2-wire type serial interface 232 :RS-232C communication interface CCL :CC-Link interface (Option) ODN:DeviceNet interface (Option) BCO:BCD parallel data output interface (Option) DAV :D/A converter voltage output (Option) DAI :D/A converter current output (Option) Only 1 option can be installed
General specifications	Power supply voltage	AC 100 to 240 V (+10%−15%) (Free power source 50/60 Hz) DC 24 V (±15%) (For DC, please specify when ordering)
	Power consumption	4 W typ.
	Operating conditions	Operation temperature: -10 to +40℃ Storage temperature: -20 to +60℃ Humidity: 80% RH or less (non-condensing)
	External dimension	96(W) × 96(H) × 138(D) mm (Not including projections)
	Weight	Approx 1.0 kg
Attachments		AC input cord* (Nominal rating 125 V) 3 m ..... 1 Jumper wire ..... 2 FCN series I/O connector (with cover) ..... 1 Mini screwdriver (when D/A converter option is selected) ..... 1 CC-Link connector (when CC-Link option is selected) ..... 1 DeviceNet connector (when DeviceNet option is selected) ..... 1 BCD output connector (when BCD output option is selected) ..... 1 Operation manual ..... 1 Analog I/O connector terminal block (Already mounted on the main unit) ..... 1 * To be attached only for AC specifications.
Optional accessories		CA372-I/O: Cable with FCN connector at one-end 3 m CA600-BCDCNV: FCN connector 32p-57•36p cabtyre cable 0.3 m CA81-232X: miniDIN-D-Sub9p cross cable 1.5 m CAAC2P-B3: AC input cord 3 m (Same as the attachment) CAAC3P-B3: AC input cord 3 m CA325AC3P-B3: AC input cord 3 m CAAC3P-CEE7/7-B2: AC input cord (Voltage resistance: 250 V) 2 m CAA325AC3P-CEE7/7-B2: AC input cord (Voltage resistance: 250 V) 2 m CN50: FCN series I/O connector (with cover) (Same as the attachment) CN51: BCD output connector CN55: FCN series I/O connector (with diagonal cover) CN60: Circular DIN8p connector for RS-232C CN71: CC-Link connector CN72: Double row connector for CC-Link CN80: Analog I/O connector terminal block (Same as the attachment) CND01: DeviceNet connector DTC2-PSL: Case for F600AT GMP96×96: Rubber packing

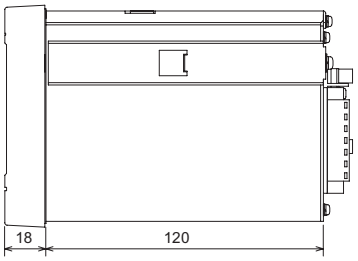
* Please note that there are possibilities of individual differences in a color tone on display devices such as LEDs, fluorescent display tubes and LCDs due to manufacturing process or production lots.

External dimension

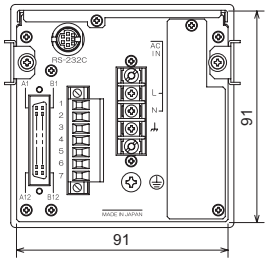
(Front)

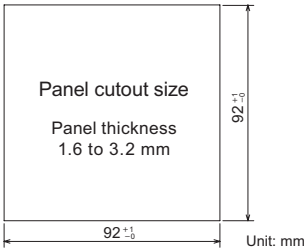


(Side)



(Rear)





Unit: mm