F600AT

GRAPHIC DISPLAY / TOUCH PANEL TYPE WEIGHING INDICATOR
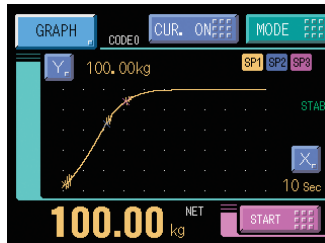
CE DIN96
RoHS2
CC-Link
DeviceNet

● 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
 DeviceNet and CC-Link can directly connect to PLC.

● DIN-size
 DIN-size 96×96 for easy installation

■ Setting Screen

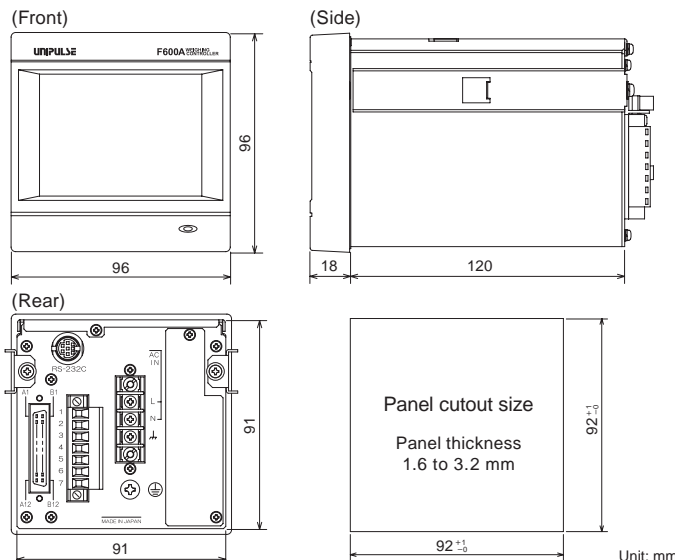Easy setting by touch panel

■ Graphic Screen

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.
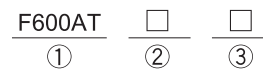
External dimension

Panel cutout size
Panel thickness 1.6 to 3.2 mm

Unit: mm

Specification

Analog	Excitation voltage	DC 10 V±5% Output current: Within 120 mA Remote sense type (Up to 4 350Ω 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±1digit (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 t, kg, g, N, lb, none
	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	External output signal (9) - 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)	
	External input signal (11) 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
	BCO:	BCD parallel data output interface (Option)
	DAV:	D/A converter voltage output (Option)
	DAI:	D/A converter current output (Option)
	ODN:	DeviceNet interface (Option)
	CCL:	CC-Link interface (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	
	Operation condition	Temperature: Operating temperature range: -10 to +40℃ Storage temperature range: -20 to +60℃ Humidity: 80% RH or less (non-condensing)
	External dimension 96(W) × 96(H) × 138(D) mm (not including protrusions)	
	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 Operation manual .... 1 Analog I/O connector terminal block (Already mounted on the main unit) .. 1 Mini driver (when D/A converter option is selected) .... 1 BCD output connector (when BCD output option is selected) .... 1 DeviceNet connector (when DeviceNet option is selected) .... 1 CC-Link connector (when CC-Link option is selected) .... 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
	CAAC3P-CEE7/7-B2:	AC input cord (Voltage resistance: 250 V) 2 m
	CN50:	FCN series I/O connector (with cover)
	CN51:	BCD output connector
	CN55:	FCN series I/O connector (with diagonal cover)
	CN60:	Round DIN8p connector for RS-232C
	CN71:	CC-Link connector
	CN72:	Double row connector for CC-Link
	CN80:	Analog I/O connector terminal block (Same accessory as the attached one)
	CND01:	DeviceNet connector
	DTC2-PSL:	Special case
	GMP96x96:	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.

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.

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