

F805AT

GRAPHIC DISPLAY / TOUCH PANEL TYPE
ALL IN ONE TYPE WEIGHING INDICATOR

U300A, the highest authority of
loadcell amplifier is used



Touch panel

English – Japanese language can be selected simply by touching on the touch panel. Each item is easily set without seeing the operation manual.



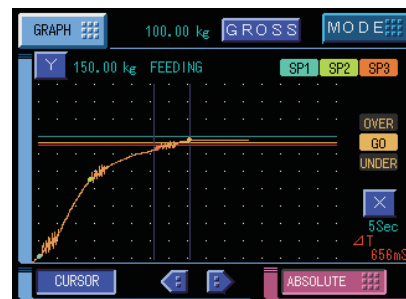
CE RoHS2 CC-Link DeviceNet

- The weighing indicator suitable for use in any kind of applications, either in measuring equipments requiring high level of sequence such as hopper scales and packing scales or in general platform scales having simple application.
- 5.7 inch color LCD module & LCD touch panel
- Direct PLC connection
A wide range of interfaces (optional) is available for the networking of measuring work through its DeviceNet and CC-Link connections.
- High speed A/D conversion and powerful digital processing capabilities of 1000 times/sec., for rapid response to input signal.
- High resolution
1/10000 at all input range is assured.
- Selectable powerful filter
Bessel low pass filter for the removal of mechanical vibration, and moving averaging digital filter are pre-installed.
- Free power source
Caters for AC 100 to 240 V without having to switch over.
DC power supply can also be specified when making your order.

Waveform display function

The analog input signal from the loadcell is displayed in real-time waveform.

The cut-off speed for bulk or fine feeding can be adjusted on the spot by setting it based on the displayed real-time waveform.



Convenient substantial functions for measuring

Measuring sequence function

Sequential control can be performed without connecting external PLC etc.

It enables to perform the delicate measuring with the combination of various setting and timer such as adjust feeding for insufficient measuring, discharge gate control at feed- measuring and inserting digital filter automatically at stable condition etc.

Equivalent input calibration function

Calibration of scale generally conducted with actual load. When it is difficult to apply actual load to the scale due to structural condition, the calibration can be done by inputting weight value corresponds to output value of load cell through the touch panel.

Auto free fall compensation function

The variation of actual free fall which becomes big factor of measuring error can be corrected automatically.

Zero tracking function

Slow zero drift or shift of zero point due to temperature change etc. is automatically corrected.

Compensation feeding function

Fine feeding has been repeated for certain intervals until the fine feeding reaches to the final.

Memory for 100 types of codes

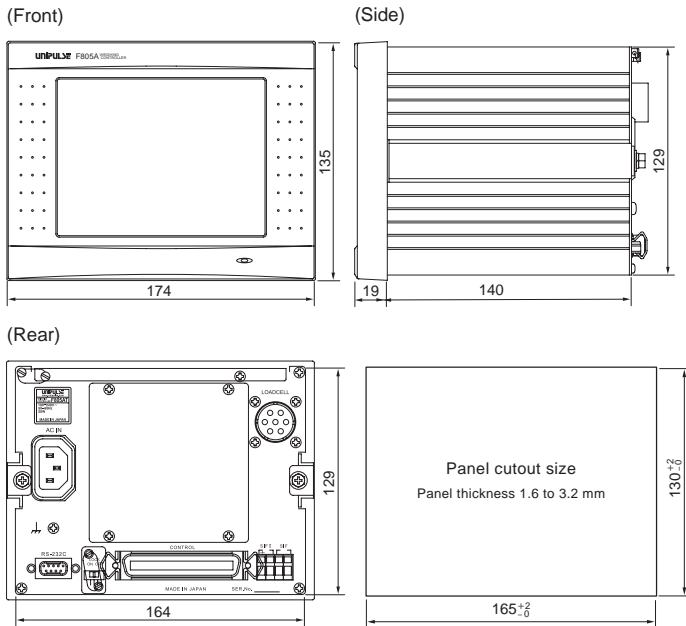
Up to 100 types of setting value such as Final value, CPS (a fall), Adjust Feeding etc. can be saved. Selective measuring can be conducted through touch panel or external signal.

Specifications

Analog	Excitation voltage	DC 10 or 5 V±5% (depending on settings) Output current: Within 120 mA Remote sense type (Up to 4 350 load cells can be connected in parallel.)	
	Zero adjustment range	0 to approx. 2 mV/V Rough adjustment: Digitally controlled by rough adjustment circuit. Fine adjustment: Automatic adjustment by digital processing.	
	Span adjustment range	0.3 to 2.0 mV/V Rough adjustment: Digitally controlled by rough adjustment circuit. Fine adjustment: Automatic adjustment by digital processing.	
	Min. input sensitivity	0.3 μV/count (Legal for Trade) 0.075 μV/count expanded	
	Accuracy	Non-linearity: Within 0.01% FS (typ. 0.005% FS at room temp.) Zero drift: Within 0.1 μV/°C (typ. 0.08 μV/°C) Gain drift: Within 15 ppm/°C (typ. 5 ppm/°C) Noise: Within 0.1 μVp-p RTI (0.1 to 10 Hz)	
	Analog filter	Bessel type low-pass filter (-12 dB/oct.) Selectable from 2, 4, 6, 8 Hz	
Display	A/D converter	Speed: 1000 times/sec. (Convertible to 200 times/sec.) Resolution: 16 bit (binary)	
	Display unit	TFT color LCD Display area: 115(W) x 86(H) mm 320 x 240 dot	
	Display	5 digits Signs: Minus sign on most significant digit	
	Unit Selectable	t, kg, g, N, lb, none	
	Display frequency	Selectable from 3,6,13 and 25 times/sec. (System speed is 200 times/sec or 1000 times/sec. (depending on settings))	
External signal	Status display	LOCK / HOLD / ZALM / Stable / Tare / RUN / HI / LO / NZ / SP1 / SP2 / SP3 / Over / GO / Under / Complete / Discharge	
	Setting value display	Code / Final / Over / Under / SP1 / SP2 / Compensation	
Interface	External Output signal (16)	Near Zero / SP1 / SP2 / SP3 / Under / Go / Over / Complete / Discharge / Lo / Hi / Stable / Weight Error / Error / Final Error / Run or total final Transistor open collector output (Emitter = COM terminal) Output is set to LO when transistor is ON. V _{ceo} = 30 V (max), I _c = 120 mA (max)	
	External Input signal (24)	Gross And Net Switching / Digital Zero / Tare On / Tare Off / Hold or Judgement / Feed And Discharge Switching / Accumulation Command / Accumulation Clear / Start / Stop / Discharging Command / Code Assign / Compulsory Discharge Command / Discharge Gate Open / Discharge Gate Close / Code Assign Selection / Graph Drawing Set to ON when shorted to COM terminal through contact point (relay, switch etc.) or non-contact point (transistor, open collector etc.) I _c = 10 mA or lower	
General specification	SIF: 2-wire type serial interface	485: RS-485 communication interface (Option) *	
	SI2: 2-wire high speed bidirection serial interface	DAC: D/A converter interface (Option)	
	232: RS-232C communication interface	ODN: DeviceNet interface (Option) *	
	BCO: BCD parallel data output interface (Option)	CCL: CC-Link interface (Option) *	
	BCI: BCD parallel data input interface (Option)	Interface option: Up to 4 options allowable; Serial communication interface (*) is 1 option only.	
Attachment	Power supply voltage	AC 100 to 240 V (+10%~15%) (Free power source at 50/60 Hz) DC 12 to 24 V (±15%) (For DC, please specify when ordering)	
	Power consumption	8 W typ.	
	Inrush current typ.	AC Spec. 15 A, 5 msec ...AC 100 V Average load condition (cold-start at room temperature) DC Spec. 10 A, 0.5 msec ...DC 12 V Average load condition (cold-start at room temperature) 30 A, 5 msec ...AC 200 V Average load condition (cold-start at room temperature) 35 A, 0.4 msec ...DC 24 V Average load condition (cold-start at room temperature)	
	Operation condition	Temperature Operation temperature range: -10 to +40°C Storage temperature range: -20 to +60°C Humidity 85% RH or less (non-condensing)	
	External dimension	174(W) x 135(H) x 159(D) mm (not including projections)	
CE marking certification	Weight	Approx. 2.3 kg	
	AC Supply cord *1 (Nominal rating 125 V) 2 m .. 1 57 series 50p connector 1 BCD Output connector (when BCD output option is selected) 1 DeviceNet connector (when DeviceNet option is selected) .. 1 AC input cord converter plug *1 *2 1 Ferrite core *2 2 BCD Input connector (when BCD input option is selected) 1 CC-Link connector (when CC-Link option is selected) 1 Mini driver 1 Operation Manual 1 D/A converter connector (when D/A converter option is selected) 1 Loadcell connector (JR connector) 1 *1 To be attached only for AC power supply specification. *2 Attached only in products with CE marking		
Optional accessories	CAAC2P-P2: AC input cord 2 m (F805A)	CN10: Load cell connector (JR connector)	CND01: DeviceNet connector
	CAAC3P-P2: AC input cord 2 m (F805ACE)	CN20: D/A converter connector	GMP165x130: Rubber packing
	CAAC3P-CEE7/7-P1.5: AC input cord (voltage resistance: 250 V) 1.5 m	CN21: BCD input/output connector	TSU02: Lightning surge unit
	CA4131: (6-wired) cable with JR connector at one end 3 m	CN22: 57 series 50p connector for external I/O	TSU03: DC lightning surge unit
	CA4230: JR-PRC (6-wired) conversion relay cable 0.3 m	CN34: D-sub9p connector for RS-232C	
	CA4311: JR-PRC (6-wired) conversion relay cable 1 m (4-wired to 6-wired) (for 520 A use)	CN71: CC-Link connector	
CN3P-2P: 3P-2P converter plug for AC input cord	CN72: Double row connector for CC-Link		

* 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

F805AT □ □ □ □ □ □
① ② ③ ④

① Standard unit

② CE marking certification

Sign	CE marking
Standard	Not conform
CE	conform

③ Power supply

Sign	Power supply
Standard	AC 100 to 240 V (Free)
DC	DC 12 to 24 V

④ Interface

Sign	Interface
Standard	SI/F, SI/F II, RS-232C

4 optional interface can be added in addition to the standard interface.

BCO	BCD output (Sink type)
BCI	BCD input
485	RS-485 *
DAC	D/A converter (Current) (Output 2 ch)
ODN	DeviceNet *
CCL	CC-Link *

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