F805AT

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

U300A, the highest authority of load cell amplifier is used



CC-Link DeviceNet RoHS2

- 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 CC-Link and DeviceNet 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 valid 1/4 scale division) at all input range is assured.
  (1/40000 at invalid 1/4 scale division)
- 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.

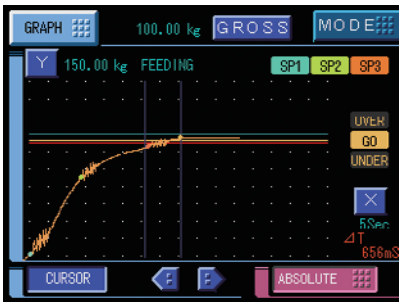
Touch panel

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



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.

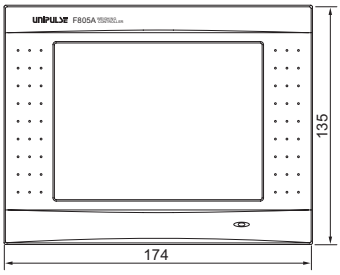
Specifications

Analog	Excitation voltage	DC 10 or 5 V±5% (depending on settings)　Output current: Within 120 mA Remote sense type (Up to four 350 Ω 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.
	Minimum input sensitivity	0.3 μV/count (at valid 1/4 scale division), 0.075 μV/count expanded (at invalid 1/4 scale division)
	Accuracy	Non-linearity: Within 0.01% FS (typ. 0.005% FS at room temperature) Zero drift: Within 0.1 μV/℃ RTI (typ. 0.08 μV/℃) Gain drift: Within 15 ppm/℃ (typ. 5 ppm/℃) 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
	A/D converter	Speed: 1000 times/sec. (Convertible to 200 times/sec.) Resolution: 16 bit (binary)
Display	Display unit	TFT color LCD　Display area: 115(W) × 86(H) mm　320 × 240 dot
	Display	5-digit　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))
	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
External signal	Output signal (16 points)	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.　Vceo = 30 V (max), Ic = 120 mA (max)
	Input signal (24 points)	Gross And Net Switching / Digital Zero / Tare On / Tare Off / Hold or Judgment / 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.) Ic = 10 mA or lower
Interface	SIF: 2-wire type serial interface SI2: 2-wire high speed bidirection serial interface 232: RS-232C communication interface CCL: CC-Link interface (Option)* ODN: DeviceNet interface (Option)* BCO: BCD parallel data output interface (Option) BCI: BCD parallel data input interface (Option) DAC: D/A converter interface (Output 2 ch)(Option) 485: RS-485 communication interface (Option)* Interface option: Up to 4 options allowable; Serial communication interface (*) is 1 option only.	
General specification	Power supply voltage	AC 100 to 240 V (+10%−15%) (Free power source 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) 30 A, 5 msec....AC 200 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) 35 A, 0.4 msec...DC 24 V Average load condition (cold-start at room temperature)
	Operating conditions	Operation temperature: −10 to +40℃　Storage temperature: −20 to +60℃ Humidity: 85%　RH or less (non-condensing)
	External dimension	174(W) × 135(H) × 159(D) mm (Not including projections)
	Weight	Approx. 2.3 kg
Attachments	AC input cord * (Nominal rating 125 V) 2 m ..... 1 AC input cord converter plug *..... 1 Mini screwdriver 1	Load cell connector .....1 57 series 50p connector... 1 Operation Manual..... 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	BCD input connector (when BCD input option is selected) ..... 1 D/A converter connector (when D/A converter option is selected) ... 1 * To be attached only for AC power supply specification.
Optional accessories	CAAC2P-P2: AC input cord 2 m(F805A) (Same as the attachment) CAAC3P-P2: AC input cord 2 m(F805ACE) CAAC3P-CEE7/7-P1.5: AC input cord (voltage resistance: 250 V) 1.5 m CA4131: (6-wired) cable with connector at one end 3 m CA4230: PRC (6-wired) conversion relay cable 0.3 m CA4311: PRC (6-wired) conversion relay cable (4-wired to 6-wired) (for 520A use) 1 m	CN3P-2P: 3P-2Pconverter plug for AC input cord CN10: Load cell connector (Same as the attachment) CN20: D/A converter connector CN21: BCD input/output connector CN22: 57 series 50p connector for external I/O (Same as the attachment)	CN34: D-sub9p connector for RS-232C CN71: CC-Link connector CN72: Double row connector for CC-Link CND01: DeviceNet connector GMP165×130: Rubber packing

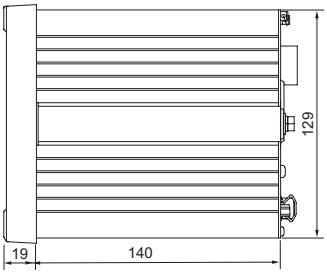
* Please note that there are possibilities of individual differences in a color tone on display devices such as LEDs, fluorescent display tubes and LCDs due to manufacturing process or production lots.

External dimension

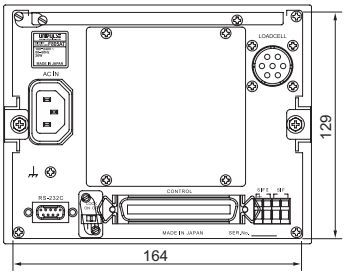
(Front)

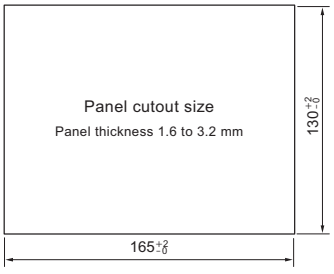


(Side)



(Rear)





Unit: mm

Structure of product code

F805AT □ □
① ② ③

① Standard unit

② Power supply

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

③ Interface

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

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

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

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