

# F325

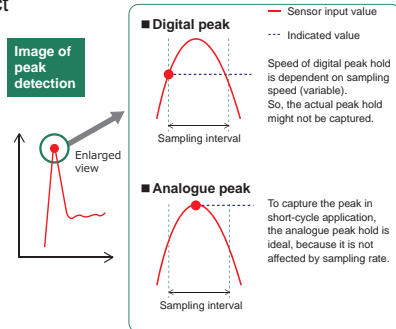
## DIGITAL INDICATOR WITH FAST PEAK HOLD FUNCTION



- Hi-speed A/D conversion rate of 3000 times/sec (resolution: 24 bit)
- The high-performance filtering functions by using both analogue and digital technology
- Cover wide range of applications: fast response time and high accuracy
- Free software for parameter setting is available
- CE marking certification
- RoHS-compliant product

### Analogue peak hold

The peak of analogue signal is captured by the peak hold circuit. Since it is independent of sampling speed, it can hold the peak value at faster speed.

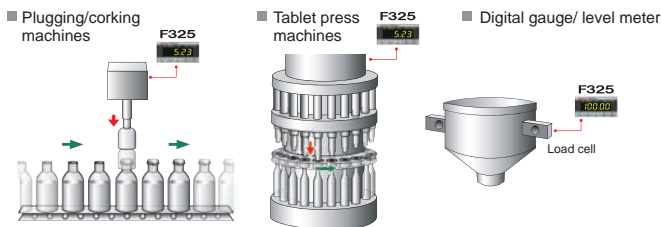


### Fast response

F325 processes the analogue peak hold value at the speed of 3000 times/sec. and outputs HI/OK/LO signal. It is ideal for the application with short cycle time.

### High-accuracy

It can be also used for highly accurate weighing system by adjusting A/D conversion rate.



### Specifications

ANALOG	Excitation voltage	DC10V or 2.5V±10% (switchable) Output current: within 30mA
	Signal input range	-3.0 to +3.0mV/V
	Accuracy	Non-linearity: 0.02%/FS±1digit (at 3mV/V input), Zero drift: within 0.5µV/°C RTI, Gain drift: within 25ppm/°C
	A/D converter	Speed: 30, 300, 3000 times/sec (selectable), Resolution: 24bit
	Analog filter	Primary low-pass filter (select frequency from 10, 30, 100, 300, 1k, 3k, 10k, 30kHz)
	Digital filter	Filter1: Bessel low-pass filter (secondary) Cut-off frequency can be set to any value from 1/300 to 1/10 of sampling speed. It can be turned off. 3000times/sec: 10 to 300Hz, 300times/sec: 1.0 to 30.0Hz, 30times/sec: 0.1 to 3.00Hz Filter2: Moving average You can set the value anywhere between 1 to 999 times.
Resolution	1/30000 (at 3.0mV/V input)	
Monitor output	Sensor input of approx. 2V per 1mV/V (Input resistance over 2k )	
Hold function	Sample or peak hold (You can chose either analogue or digital peak hold from setting menu. Frequency response of analogue hold is 1kHz)	
DISPLAY	Display unit	15mm character height: 7-segment green LED (5-digits) Numerical value: 5-digits Indicated value: -19999 to +99999 Decimal points: Selectable decimal point displaying position (0.000, 0.00, 0.0, 0)
	Display items	Status display: Red 3φ LED: HI, LO, PEAK, HOLD Green 3φ LED: OK Display frequency: Selectable from 3, 6, 13 and 25 times/sec
EXTERNAL I/O SIGNAL	External input (3)	DZ, HOLD, H.RESET < Volt-free contact input > External devices can be connected, such as relays, switches, transistors and so on. The signal can be outputted by making short-circuit between input and common terminal. In case transistor is connected, please use NPN (sink) transistor. Internal power supply voltage: DC12V. When short-circuited: Approx. 4mA < DC-input for both plus common and minus common type > (please specify the type of input when ordering). External devices can be connected, such as relays, switches, transistors and so on. Input signal is outputted by applying voltage between input and common terminal. In case a transistor is connected, please use NPN type for plus common and PNP type for minus common. Maximum Rated Voltage: DC27.6V, "ON": when the voltage is above DC 9V (Load Current: approx. 10mA at DC24V), "OFF": below DC3V.
	External output (5)	Assign output from various selection: HH, LL, Overload, RUN, HOLD, NZ, DZ response) PhotoMOS relay output (common for sink and source type) Maximum rated voltage: DC30V, maximum rated current: 100mA, operating time: approx. 1 msec
GENERAL SPECIFICATIONS	Power supply voltage	AC spec.: AC100 to 40V (+10%, -15%) [free power supply 50/60Hz] DC spec.: DC12 to 24V (±15%) (please specify the type of input when ordering)
	Power consumption	AC spec.: 3W typ / DC spec.: 4W typ
	Rush current (Typ)	AC spec.: 2A, 1msec: AC100V average load condition (cold start at room temperature) 4A, 1msec: AC200V average load condition (cold start at room temperature) DC spec.: 2A, 20msec: DC12V average load condition (cold start at room temperature) 1A, 50msec: DC24V average load condition (cold start at room temperature)
	Operation condition	Operation tem. range: -10 to +40°C Storage tem. range: -40 to +80°C Humidity: 85%RH or less (non-condensing)
External dimensions	96(W) x 48(H) x 132.5(D) mm (not including projections)	
Weight	Approx. 600g	
ATTACHMENTS	AC input cord (AC power supply is selected) · 1, 3P-2P conversion adapter (AC power supply is selected) · 1, Terminator (RS-485 is selected) · 1, BCD output connector (BCD output option is selected) · 1, Operation manual · 1	
OPTIONAL ACCESSORIES	CA325AC3P-B3 : AC Supply cord 3m CN82 : I/O connector (wire entry holes: front) CA325AC3P-CEE7/B2 : AC Supply cord (Voltage resistance: 250V) 2m CN83 : I/O connector (wire entry holes: bottom) CN3P-2P : 3P-2P converter plug for AC input cord CN84 : I/O connector (wire entry holes: top) CN51 : BCD output connector TSU03 : DC lighting surge unit	
CE MARKING CERTIFICATION	EMC directive EN61326-1 Safety standard EN61010-1, EN62311	

### Structure of product code

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#### ① Standard unit

Sign	Input type
Standard	Volt-free contact input
DCI	Voltage input

#### ③ Power supply

Sign	Power supply
Standard	AC100 to 240V (Free)
DC	DC12 to 24V

#### ④ Interface (Standard)

Sign	Interface
Standard	RS-485 (Modbus-RTU / UNI-format)
SIF	SI/F

#### ⑤ Interface (Option)

Sign	Interface
BCO	BCD output (Sink type)
BSC	BCD output (Source type)
DAV	D/A converter (Voltage)
DAI	D/A converter (Current)
232	RS-232C

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

### External dimension

