

Aug. 2016

Obsolete Product



Recommended substitute product

Digital indicator

F325

Digital indicator

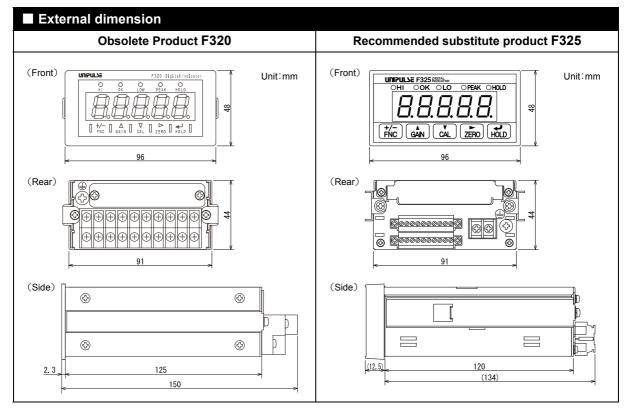
F320

- Obsolete date Nov. 2016
- Difference to recommended substitute product

Product appearance	External dimension	Attachment dimension	Specification	Setting method
☆	☆ (Only the side)	0	1	0

- ↑ : Performance UP
- : Minor change
- ☆ : Major change







	ifications	Obsolete Product F320	< Differences > Recommended substitute product F325
Analog section	A/D converter	Speed: 2000 times/sec.	Speed: 30, 300, 3000 times/sec. (setting selectable)
	Analog filter	3, 10, 30, 100, 300, 1kHz (setting selectable)	10, 30, 100, 300, 1k, 3k, 10k, 30kHz (setting selectable)
	Digital filter	Moving average filter Arbitrarily selectable from 0 to 256 times	Filter 1: Second-Order Low-Pass Bessel Filter Cut-off frequency can be set at 1/300 or more, 1/10 or less than the sampling rate. (It is also possible to select no filter.) 3000 times/sec.: 10 to 300Hz 300 times/sec.: 1 to 30Hz 30 times/sec.: 0.1 to 3Hz Filter 2: Moving average filter Arbitrarily selectable from 1 to 999 times
	Hold function	Sample, Peak (Digital peak)	Sample, peak (selectable from analog peak (response 1kHz) or digital peak)
	Display unit	Numbers are displayed by a 7-segment red LED with a character height of 15mm	Numbers are displayed by a 7-segment green LED with a character height of 15mm
	Indicated value	-19999 to 19999	-19999 to 99999
	Status display	Red LED HI, OK, LOW, PEAK, HOLD	Red LED HI, LO, PEAK, HOLD Green LED OK
signal out	External output	2 point HI, LO Relay output AC250V 0.5A or less, DC30V 0.5A or less	5 point HI, OK, LO, output selection1, output selection2 (Output selection can be selected by setting HH limit, LL limit, overload, RUN, hold zero, near zero, and DZ response.) PhotoMOS relay output commonly for sink/source Rated voltage: DC30V max Rated current: 100mA max Operation time: Approx. 1msec
	External input	2 point DZ, HOLD < No-voltage contact input > Relays, switches, and transistors can be connected. Signals are input by the short-circuit and open-circuit between input terminals and the common terminal. Use a sink type when connecting transistors. Internal power supply voltage: DC12V Short circuit flow: Approx. 8mA	3 point DZ, HOLD, H.RESET < No-voltage contact input > Relays, switches, and transistors can be connected. Signals are input by the short-circuit and open-circuit between input terminals and the common terminal. Use a sink type when connecting transistors. Internal power supply voltage: DC12V Short circuit flow: Approx. 4mA < DC-input > (Selectable by specifying at time of order) Relays, switches, and transistors can be connected. Signals are input by applying voltage between the input terminals and the common terminal. Use a sink type for plus common and a source type for minus common when connecting transistors. Rated voltage: DC27.6V max ON condition: DC9V or more (load current at DC24V = approx. 10mA)



Specifications		< Differences >	
	Obsolete Product F320	Recommended substitute product F325	
Interface	< Standard > 485: RS-485 < Option > BCO: BCD parallel data output (Sink type) BSC: BCD parallel data output (Source type) DAV: D/A converter (Voltage output) DAI: D/A converter (Current output) * 1 optional interface can be added in addition the standard interface.	Standard > 485 : RS-485 SIF : SI/F (Specifying at time of order) *SI/F and RS-485 cannot be simultaneously used < Option > BCO : BCD parallel data output (Sink type) BSC : BCD parallel data output (Source type) DAV : D/A converter (Voltage output) DAI : D/A converter (Current output) 232 : RS-232C * 1 optional interface can be added in addition the standard interface.	
Setting section Setting item	< Setting mode 1 > HI limit, LO limit, HI/LO limit comp mode, Hysteresis, Digital offset, Near zero < Setting mode 2 > Digital filter, Analog filter, Motion detect (time), Motion detect (range), Zero tracking (time), Zero tracking (range) Hold mode < Setting mode 3 > Set value LOCK, Calibration LOCK, ZERO key valid/invalid, HOLD key valid/invalid, Min. scale division, Display frequency, Decimal place, Excitation voltage < Setting mode 4 > RS-485 I/F setting, RS-485 ID, RS-485 transmission delay time, BCD data update rate, D/A zero setting, D/A full scale setting, D/A output mode, Password	Setting mode 1 > HI limit, LO limit, HI/LO limit comp mode, Hysteresis, Digital offset, Near zero, HH limit, LL limit Setting mode 2 > Moving average filter, Analog filter, Motion detect (time), Motion detect (range), Zero tracking (time), Zero tracking (range) Hold mode Set value LOCK, Calibration LOCK, ZERO key valid/invalid, HOLD key valid/invalid, Min. scale division, Display frequency, Decimal place, Excitation voltage Setting mode 4 > RS-485 I/F setting, RS-485 ID, RS-485 transmission delay time, BCD data update rate, D/A zero setting, D/A full scale setting, D/A output mode, Password Setting mode 5 > Alarm HI limit, Alarm LO limit, Output selection, Sampling rate, Digital low-pass filter, Peak hold selection, Hold fix section, Hold detection wait, Hold value renewal timing Setting mode 6 > RS-485 communication type, RS-232C communication type, RS-232C communication type, RS-232C l/F setting, BCD output mode, BCD B9 output selection, Automatic printing, Hold value printing Setting mode 7 > I/O input check, I/O output check, BCD input check, BCD output check, BCD input check, RS-485 check, Interface, Option type, Version	



■ Spec	ifications		< Differences >
		Obsolete Product F320	Recommended substitute product F325
General perfor-	Power consumption	< AC spec > 4W typ < DC spec > 6W typ	< AC spec > 3W typ < DC spec > 4W typ
mance	Rush current	< AC spec > 15A, 2msec : AC100V average load (ordinary temperature, at cold-start time) 30A, 2msec : AC200V average load (ordinary temperature, at cold-start time) < DC spec > 4A, 25msec : DC12V average load (ordinary temperature, at cold-start time) 3A, 20msec : DC24V average load (ordinary temperature, at cold-start time) 96 (W) ×48 (H) ×127.3 (D) mm	< AC spec > 2A, 1msec : AC100V average load (ordinary temperature, at cold-start time) 4A, 1msec : AC200V average load (ordinary temperature, at cold-start time) < DC spec > 2A, 20msec : DC12V average load (ordinary temperature, at cold-start time) 1A, 50msec : DC24V average load (ordinary temperature, at cold-start time) 96 (W) ×48 (H) ×132.5 (D) mm
	Dimensions	(not including protruding sections)	(not including protruding sections)
	Weight	Approx.700g	Approx.600g
Accessories		AC input cord*	AC input cord*