GRAPHIC DISPLAY / DIGITAL INDICATOR

GRAPHIC DISPLAY / TOUCH PANEL TYPE











- 2000 times/sec. high-speed processing
- Work no. can set up up to 16 types
- Can start measurement even there is no external signal
- Analog monitor output Voltage output is proportionate to the input signal making the recording on recorder convenient.
- A variety of interfaces RS-232C/ BCD output (Sink type/ Source type)/ D/A output/ DeviceNet/ CC-Link

Approx. 2 V per 1 mV/V strain gauge input

- 3.5 inch color LCD module & touch panel Setting operation made easy via direct touch on the touch panel.
- Multi calibration function Stores calibration values for 4 ch portions and can be selected via touch panel or external signal
- Alarm function

Monitors if the measured value is abnormal

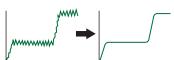
- Hi/Lo limit for in comparison setting Overflow
- A/D input range
- Digital zero regulation value
- Can confirm forcs pattern before measurement start. (Pre Trigger)

Waveform display

Input signal from the sensor is displayed as real-time waveform display.

Greatly shortens the adjustment time during the machine's start-up.

Assuredly cancels vibration, noise and unwanted inputs. The filtering results can be confirmed from the waveform.



Greatly improves the machine's reliability through its in-process operational check.

The machine's operation can be consistently monitored through the waveform and hold points in-process check.

Can also be used when investigating causes of the machine's trouble.



The Hold point is marked in red

Storing of measured data and setting values

Using the special communication software, the setting values can be edited and stored. The same special communication software can also create the CSV output of the measured data.

Extended functions

Extended functions through simple screen operation

Double hold

2 types of Hold functions can be simultaneously performed.

Previous value comparison The difference generated after deducting the measured value held earlier can be compared with the Hi/Lo limit.

Relative value comparison (only during Double hold)

The difference (relative difference) between hold value A and hold value B can be compared with the Hi/Lo limit.



Displayed in the special measuring screen for double hold

Work selection (multi hold)

This function compares the required points in the waveform with the Hi/Lo limits. F372A stores up to 16 types of settings (settings such as types of holds or Hi/Lo limits) which can be selected via external signals.

[Types of holds]

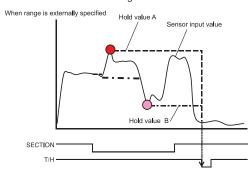
Sample, Peak, Bottom, P-P, Average, Inflection Point, Relative Maximum, Relative Minimum, Relative Difference

[Setting of range]

Externally specified range (Peak, Bottom, P-P, Average) Externally + time specified range (Peak, Bottom, P-P, Average) Level + time specified range (Peak, Bottom, P-P, Average) Level (Peak, Bottom)

(Example) A: Peak hold B: Bottom hold

Holds maximum value and minimum value in the specified range. The values are held until the T/H signal is activated.



Specifications

Analog	Excitation voltage	DC 10 V, 2.5 V±5% (depending on settings) Output current: Within 120 mA	
Allalog	Signal input range	-3.0 to +3.0 mV/V	
	Accuracy	Non-linearity: Within 0.02% FS±1 digit (at 3.0 mV/V input)	
		Zero drift: Within 0.5 μV/°C RTI	
		Gain drift: Within 0.01%/ °C	
	Analog filter	Low pass filter (-6dB/oct.) Selectable from 30, 100, 300, 1 k Hz	
	A/D converter	Speed: 2000 times/sec.	
		Resolution: 24 bit (binary) Approx. 1/30000 at 3.0 mV/V input	
	Analog monitor output	Output level: Approx. 2 V per 1 mV/V input ; Load resistance: 2 kΩ or more	
Display	Display unit	TFT color LCD	
. ,	Display area	71(W) × 53(H) mm	
	Dot structure	320 × 240 dot	
	Measured value	5 digits: -99999 to +99999 Sign: Minus sign on most significant digit	
Hold	1) Sample; 2) Peak; 3) Bottom; 4) P-P; 5) Average; 6) Inflection Point; 7) Relative Maximum; 8) Relative Minimum; 9) Relative Difference; 10) Sample & Peak; 11) Sample & Bottom; 12) Sample & P-P; 13) Sample & Netative Minimum; 16) Sample & Relative Minimum; 16) Sample & Relative Minimum; 17) Sample & Relative Difference; 18) Peak & Bottom; 19) Peak & P-P; 20) Bottom & P-P; 21) Average & Peak; 22) Average & Bottom; 23) Average & P-P; 24) Relative Maximum & Relative Minimum; 25) Relative Maximum & Relative Difference; 26) Relative Minimum & Relative Difference		
Comparison function			
Calibration value selection	Stores up to 4 types of calibration values that can be interchanged		
External signal	External output signa	II (8) HI/LO comparison output (HH, HI, OK, LO,LL)/ RUN output/ Hold end output/ Graph plotting end output Vce = 30 V (max), Ic = 30 mA (max)	
	External input signal	(10) Work selection input/ hold control input/ digital zero input (DZ)/ graph plotting control input/ calibration selection input Ic = 10 mA or less	
Interface	SIF: 2-wire type serial interface 232: RS-232C communication interface BCO: BCD parallel data output interface (Sink type) (Option) BSC: BCD parallel data output interface (Source type) (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 one option can be installed		
Option	ISC: I/O Source boar	d	
General specifications	Power supply voltage Power consumption Inrush current typ. Operation condition	p DC 24 V (±15%) 5 W typ. 55 A, 1 msec (cold start at room temperature) Temperature: Operation temperature -10 to +40°C Stroage temperature -20 to +60°C Humidity: 85% RH or less (non-condensing)	
	External dimension Weight	96(W) × 96(H) × 138(D) mm (not including projections) Approx. 1.0 kg	

Attachments	FCN series I/O cor	nnector (with cover) 1	
	Operation Manual	1	
	Analog I/O connector terminal block (Already mounted on the main unit) 1		
	BCD output connector (when BCD output option is selected)		
	Mini driver (when D/A converter option is selected)		
	DeviceNet connector (when DeviceNet option is selected)		
	CC-Link connector	r (when CC-Link option is selected) 1	
Optional	CA372-I/O:	Cable with FCN connector at one-end 3 m	
accessories	CA600-BCDCNV:	FCN connector 32p-57 · 36p cabtire cable 0.3 m	
	CA81-232X:	miniDIN-D-Sub9p cross cable 1.5 m	
	CN50:	FCN series I/O connector (with cover)	
	CN51:	BCD output connector	
	CN55:	FCN series I/O connector (with diagonal cover)	
	CN60:	Round DIN 8p 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 on	
	CND01:	DeviceNet connector	
	DTC2:	Special case	
	GMP96x96:	Rubber packing	
	TSU03:	DC Lightning surge unit	
CE marking	EMC Directive EN	61326-1	
certification			

^{*} 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



① Standard unit

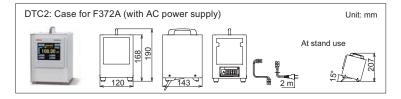
② I/O output

Sign	Output type
Standard	Sink type (NPN output)
ISC	Source type (PNP output)

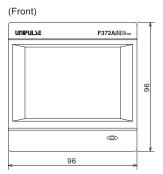
3 Interface

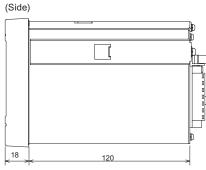
Sign	Interface			
Standard	SI/F, RS-232C			
One optional interface can be added in addition to the standard interface.				

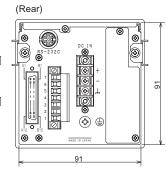
всо	BCD output (Sink type)
BSC	BCD output (Source type)
DAV	D/A converter (Voltage output)
DAI	D/A converter (Current output)
ODN	DeviceNet
CCI	CC-Link

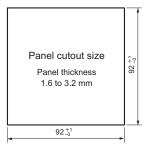


External dimension









Unit: mm