F372A GRAPHIC DISPLAY/ TOUCH PANEL TYPE DIGITAL INDICATOR





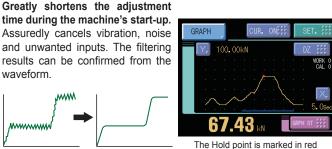


- CE marking certification
- RoHS-compliant product
- 2000 times/sec high-speed processing
- Analog monitor output Voltage output is proportionate to the input signal making the recording on recorder convenient.
- Approx. 2V per 1mV/V strain gauge input A variety of interfaces
- RS-232C/BCD output/D/A output/DeviceNet/CC-Link I/O input: minus common
- I/O output: selectable between sink and source type
- 3.5 inch color LCD module & touch panel Setting operation made easy via direct touch on the touch panel.

Waveform Display

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

- 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
 - A/D input range
 - Overflow
 - Digital zero regulation value



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.

Work Selection (Multi Hold)

This function compares the required points in the waveform with the Hi/Lo limits. It can 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)

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)

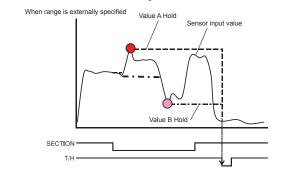
The difference (relative difference) between value A hold and value B hold can be compared with the Hi/Lo limit.



Displayed in the special measuring screen for 2-points hold

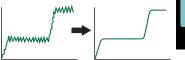
(Example) A: Peak hold **B: Bottom hold**

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



time during the machine's start-up. Assuredly cancels vibration, noise

and unwanted inputs. The filtering results can be confirmed from the waveform.



Specifications

ANALOG	Excitation voltage	0C10V, 2.5V \pm 5% (depending on settings); Output current: within 120mA		
	Signal input range	-3.0 ∽ +3.0mV/V		
	Zero/Gain adjustment	range Automatic adjustment by digital processing		
	Equiv. input calibration	range -3.0 ~ -0.5mV/V, +0.5 ~ +3.0mV/V		
	Equiv. input calibration	error Within ±0.1%/FS		
	Accuracy N	Ion-linearity ······Within 0.02%/FS ± 1 digit (at 3.0mV/V input)		
	Z	ero drift ···········Within 0.5µV/°C RTI		
	C	Gain drift ······ Within 0.01%/ °C		
	Analog filter L	ow pass filter (-6dB/oct); Selectable from 30, 100, 300, 1kHz		
	A/D converter S	peed: 2000 times/sec; Resolution: 24 bit (binary) approx. 1/30000 at 3.0mV/V input		
	Analog monitor output	Output level: Approx. 2V per 1mV/V input ; Load resistance: 2kΩor more		
DISPLAY		FT color LCD		
-		1(W)×53(H)mm		
		20 x 240 dot		
		digits:-999999~+99999 Sign: Minus sign on most significant digit		
	Bottom; 4) P-P; 5) Average; 6) Inflection Point; 7) Relative Maximum; J) Relative Difference; 10) Sample & Patex; 11) Sample & Bottom; Sample & Average; 14) Sample & Inflection Point; 15) Sample & Relative & Relative Minimum; 17) Sample & Relative Difference; J) Pak & P-P; 20) Bottom & P-P; 21) Average & Peak; 23) Average & P-P; 24) Relative Maximum & Relative Minimum; & Relative Difference; 26) Relative Minimum & Relative Difference			
COMPARISON FUNCTION	N Higher Hi (HH) limit setting, Lower Lo (LL) limit setting, High (HI) limit setting, Lower (LO) limit setting			
CALIBRATION VALUE SELECTION	Stores up to 4 types of	calibration values that can be interchanged		
EXTERNAL SIGNAL	External output signal	(8) Hi/Lo comparison output (HH, HI, OK, LO,LL)/RUN output/ Hold end output/ Graph plotting end output Vce = 30 V (max), Ic = 30m A (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 (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) ISC: I/O Source board			
OPTION				
GENERAL SPECIFICATIONS	Power supply voltage Power consumption Inrush current (Typ) Operation condition	18W max 55 A, 1 msec (cold start at room temperature) Temperature: Operation temperature -10 ∽ +40°C Storage temperature -20 ~ + 60°C		
	External dimension Weight	Humidity:85% RH or less (non-condensing) 96 (W) x 96 (H) x 138 (D) mm (not including projections) Approx. 1.0 kg		

	ATTACHMENTS	FCN series I/O connector (with cover)
	OPTIONAL ACCESSORIES	CA372-I/O: Cable with FCN connector at one-end 3m CA372-I/O: Cable with FCN connector at one-end 3m CA51-232X: minDIN-D-Sub9p cross cable 1.5m CN50: FCN series I/O connector (with diagonal cover) CN56: FCN series I/O connector for RS-232C CN51: BCD output connector CN51: CC-Link connector CN71: CC-Link connector CN80: Analog I/O connector terminal CND01: DeviceNet connector GMP96x96: Rubber packing TSU03: DC Lightning surge unit
CE MARKING EMC Directive EN61326-1		EMC Directive EN61326-1

CERTIFICATION

Model Constitution

 $\textcircled{1} Standard \ unit$

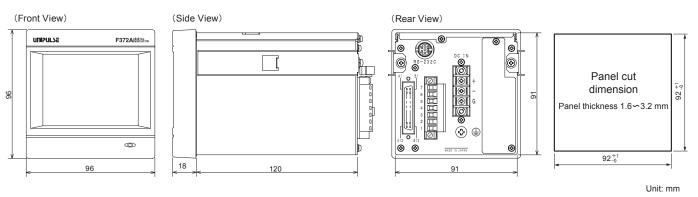
I/O output					
	Sign	Output type			
	Standard	Sink type(NPN output)			
	ISC	Source type(PNP output)			

③Interface

Sign	Interface
BCO	BCD output(Sink type)
DAV	D/A converter(Voltage output)
DAI	D/A converter(Current output)
ODN	DeviceNet
CCL	CC-Link

Standard installation : SI/F, RS-232C 1 function can be carried in addition to a standard.

External Dimension



P For F370 and F371 users

F372A is the replacement model for F370 and F371. The setting method and functions of F372A have been made compatible with that of F370 and F371, even if the extended functions of F372A were not utilized.