GRAPHIC DISPLAY/TOUCH PANEL TYPE DIGITAL INDICATOR FOR VOLTAGE & CURRENT OUTPUT SENSOR





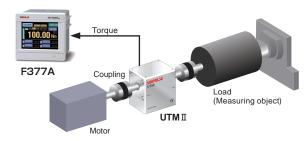
- Can be directly connected to voltage or current output sensor (Voltage: ±10V; Current: ±20mA)
- RoHS-compliant product
- 2000 times/sec high-speed processing
- Analog monitor output

Voltage output is proportionate to the input signal making the recording on recorder convenient.

At voltage input: Approx. 0.6V per 1V At current input: Approx. 0.3V per 1mA

- 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

Example of use combined with torque meter UTM II



Waveform display

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



The Hold point is marked in red

Work selection (multi hold)

This function compares the required points in the waveform with the Hi/Lo limits. F377A 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)

- Multi calibration function
 - Stores calibration values (types of analog output sensors/zero calibration/actual load calibration/equivalent input calibration etc.) for 4ch portions and can be selected via touch panel or external signal
- Alarm function

Monitors if the measured value is abnormal

- Hi/Lo limit for alarm in comparison setting
- A/D input range
- Overflow
- · Digital zero regulation value
- Storing of measured data and setting values

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.

Auto reset selection

2 selection from below.

- ·Hold reset is automatically performed at the start of each Hold Section.
- ·Hold value is maintained until the T/H signal is input.

Pre trigger display function

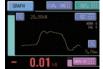
Graph is plotted by tracking back the time by the percentage set for Pre Trigger Display.





Filter characteristic selection

You can select CR characteristic digital filter from LPF or HPF. (On you can select conventional digital filtering by the moving-average method)





moving-average method

CR characteristic

Specifications

ANALOG	Voltage input -10 to + 10V Input impedance: 1MΩ or more			
	Current input -20 to + 20mA Input resistance: Approx. 250Ω			
	Zero/Gain adjustment range Automatic adjustment by digital processing			
	Equiv. input calibration range -10.00 to -2.00V, +2.00 to +10.00V or			
	-20.00 to -4.00mA, +4.00 to +20.00mA			
	Equiv. input calibration error Within ±0.1%/FS			
	Accuracy Non-linearityWithin 0.02%/FS ±1digit (at 10V or 20mA input)			
	Zero drift 0.2mV/°C RTI or within 0.4μA/°C RTI			
	Gain driftWithin 0.01%/°C			
	Analog filter Low pass filter (-6dB/oct); Selectable from 30, 100, 300, 1kHz			
	A/D converter Speed: 2000 times/sec; Resolution: 24 bit (binary) approx. 1/30000 at 10v or 20m	ıA input		
	Analog monitor output Output level: Approx. 0.6V per 1V input or approx. 0.3V per 1mA i Load resistance: 2kΩor more	nput;		
DISPLAY	Display unit TFT color LCD			
	Display area 71 (W) x 53 (H) mm			
	Dot structure 320×240 dot			
	Measured value 5 digits: -99999 to +99999 Sign: Minus sign on most significant dig	git		
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 & Pea	.k;		
	11) Sample & Bottom; 12) Sample & P-P; 13) Sample & Average;			
	14) Sample & Inflection Point; 15) Sample & Relative Maximum;			
	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	nce		
COMPARISON	Higher Hi (HH) limit setting, Lower Lo (LL) limit setting, High (HI) limit setting,			
FUNCTION	Lower (LO) limit setting			
CALIBRATION	Stores up to 4 types of calibration values that can be interchanged			
VALUE SELECTION				
EXTERNAL	External output signal (8) Hi/Lo comparison output (HH, HI, OK, LO,LL)/RUN or	utput/		
SIGNAL	Hold end output/Graph plotting end output	utput/		
0.0.0.	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)			
OPTION	ISC: I/O Source board			
GENERAL	Power supply voltage DC24V (±15%)			
SPECIFICATIONS	S Power consumption 4W typ			
	Inrush current (Typ) 55A, 1 msec (cold start at room temperature)			
	Operation condition Temperature : Operation temperature -10 to +40°C			
	Storage temperature -20 to +60°C			
	Humidity : 85% RH or lower (non-condensing)			
	External dimension 96 (W) × 96 (H) × 138 (D) mm (not including projections)			
	Weight Approx. 1.0kg			

ALIACHMENTS	FCN series I/O connector (with cover)1
	Jumper wire1
	Operation Manual1
	BCD output connector (when BCD output option is selected)1
	Mini driver (when D/A converter option is selected))1
	DeviceNet connector (when DeviceNet option is selected))1
	CC-Link connector (when CC-Link option is selected))1
OPTIONAL	CA372-I/O: Cable with FCN connector at one-end 3m
ACCESSORIES	CA81-232X: miniDIN-D-Sub9p cross cable 1.5m
	CN50: FCN series I/O connector (with cover)
	CN55: FCN series I/O connector (with diagonal cover)
	CN60: Round DIN 8p connector for RS-232C
	CN51: BCD output connector
	CN71: CC-Link connector
	CN80: Analog I/O connector terminal
	CND01: DeviceNet connector
	DTC2: Special case
	GMP96x96: Rubber packing

Structure of product code

F377A		
1	2	3

①Standard unit

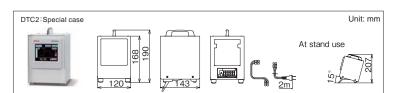
②I/O output

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

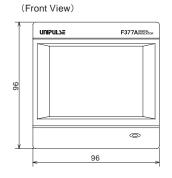
③Interface

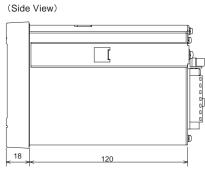
9 11 111				
	Sign	Interface		
	Standard	SI/F, RS-232C		
	One optional interface can be added			
	in addition the standard interface.			
BCD output/Sink tv		PCD output(Sink type)		

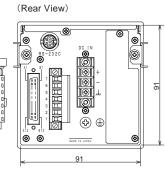
BCO	BCD output(Sink type)
DAV	D/A converter(Voltage output)
DAI	D/A converter(Current output)
ODN	DeviceNet
CCL	CC-Link

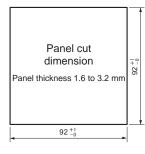


External dimension









Unit: mm