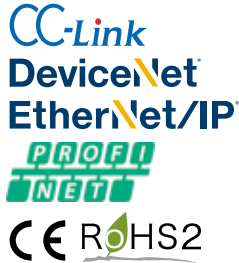


FS2000

DIGITAL INDICATOR WITH GRAPHIC DISPLAY / TOUCH PANEL
(SD CARD SLOT & HIGH SAMPLING RATE)



The best solution for OK/NOK judgment of press fitting and caulking application !!
High responsiveness of 5 kHz to fully utilize the performance of Super Cell !!
A fluctuation of force is shown as a waveform!!

- Two-dimensional OK/NOK judgement can be performed with a load cell and displacement sensor.
- Analog monitor output
Voltage output is proportionate to the input signal making the recording on recorder convenient.
Approx. 2 V per 1 mV/V strain gauge input
- 25000 times/sec. high-speed processing
- Variety of interfaces
USB / CC-Link / DeviceNet / EtherNet/IP / Ethernet / PROFINET IO
- 4.3-inch color LCD module & touch panel
Operation can be effortlessly performed by a direct touch on the touch panel.

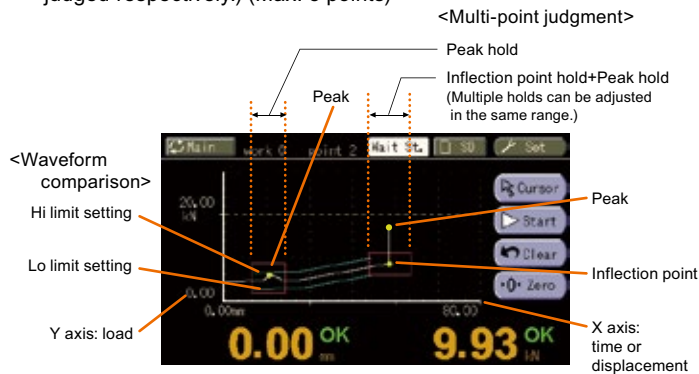
Comparison & hold function by waveform display

■ Waveform comparison

This function compares the actual measurement waveform against the setup High/Low limit waveforms and will give out an NOK judgment when any of the point exceeded the preset High/Low limit waveforms.

■ Multi-point judgment

OK/NOK judgment can be performed on multi points in one process. (e.g. The start point and end point of press fitting can be judged respectively.) (Max. 5 points)



Improved usability

4.3 inch wide display provides excellent visibility.
Main display configuration can be selected to keep it as simple as possible by eliminating unnecessary information.



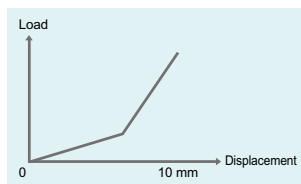
OK judgment



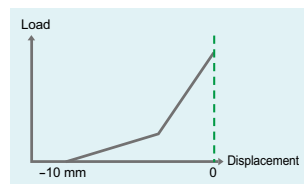
Enlarged numerical display

Selectable waveform reference

Judgement is possible based on press point of press machine



Front reference
Measurement point starts from left



Back reference
Measurement point starts from right



Enlarged waveform display

Trend display is helpful for preventive maintenance

Trend of the zero-point shift and hold values can be monitored to find any irregularities for preventing breakdown of machines.



Trend display

Changed setting items are highlighted!

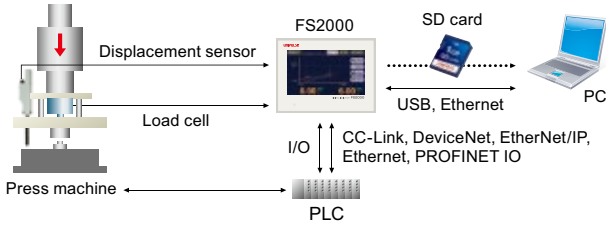
Master and current set values are listed up for checking the changed setting items easily. Set values can be edited directly on the list without going into each setting menu.

* Except for waveform comparison settings

Loadcell	Master Setting	Present
Strain	Use (6-wire)	Use (6-wire)
Excitation Volt.	10V	10V
Unit	N	kN
Zero Calibration	0.000m/V	0.000m/V
Emis. Temp. Coef.	1.000m/V	0.250m/V

List display

Example of use



Saved measured data (waveform) on SD card can be displayed afterwards

Measured data and set values can be saved in the SD card. Data can be converted to CSV format easily for editing with Microsoft Excel.



FS2000-HYS Hysteresis specifications

Standard Can see going waveform

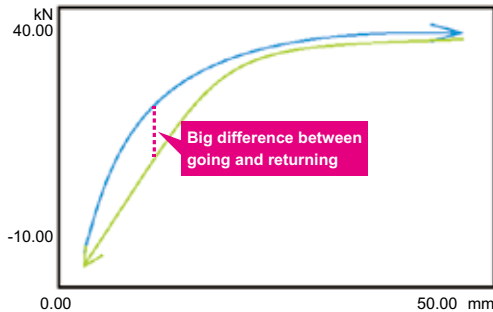


Hysteresis specifications

Can see outgoing and return waveform

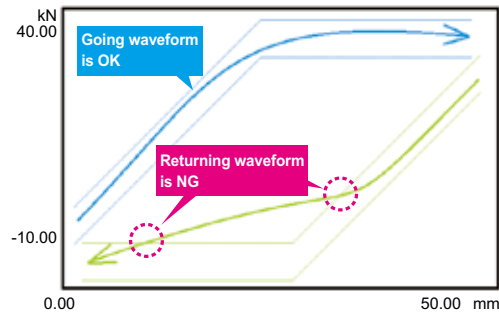
● Can choose comparison method!

<Differential waveform comparison>
Judgment of OK/NOK by the difference between going and returning



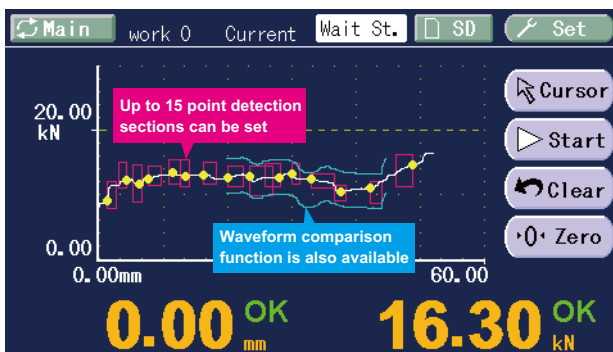
- Recommended for below usage:
- Expansion and contraction of the spring
 - Rotating the steering wheel clockwise, counterclockwise, etc.

<Standard waveform comparison>
OK/NOK judgment for going and returning waveform.



- Recommended for below usage:
- Torque hinges used to open and close doors
 - Shock absorbers that absorb the impact of tires, etc.

FS2000-MHP Multi hold point specifications



Standard

OK/NOK judgement up to 5 points



Multi hold point specifications

OK/NOK judgement up to 15 points

