FS10 is a digitizer module for strain gauge type sensors for force, pressure, and displacement measurements. A very accurate measurement can be achieved with the high sampling rate of 1200sps. This product is ideal for test and experiment applications.

RoHS

Compact load cell
USB converter
FS10
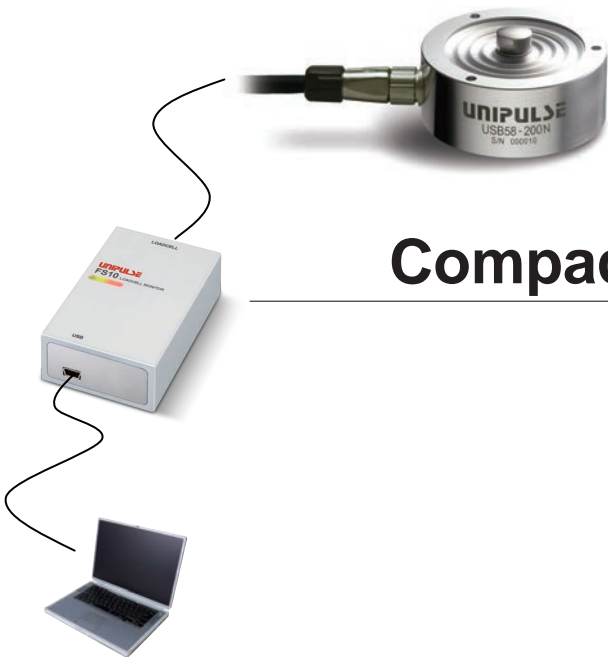
Compact, light, and simple to use!

With FS10, you can monitor the load cell outputs on PC easily.

Stylish design to match with PC.

Computers are used in our everyday life. Therefore,
FS10 is designed to suit well with PC.

High performance & capability.

■Sampling rate of 1200 sps for fast and stable measurement.
■Improve visibility with the waveform display.
■The dedicated PC software for the device is available.

■Compact & Light

Space-saving design: 50W x 23H x 80D (approx. 120g).

■Simple Configuration

You can simply plug a load cell into FS10 via a cable and connect it to PC via USB. The module is powered by USB, and it can supply excitation voltage to the connected load cell as well.

■Software

The dedicated software for FS10 can be downloaded from our website. By simply launching the program, measurements can be started right away. (Once PC is connected to FS10, it will start download-ing the USB driver automatically if it is connected to Internet).

Pass/fail test

High & low limit function: HH/HI/LO/LL

Easy to perform the initial setup and calibration.

Using the software, settings can be saved and edited on PC, and calibration can be performed as well.

Waveform display

The waveform of force can be monitored in real time. You can see if the real-time value is within the high/low, and the data of waveform can be saved on PC as well.

Data recoding

Up to 10000 measurement and status (e.g. HI, LO, etc…) data can be recorded. Interval logging is available, and it is useful for long-hour loading tests and so on. With the OK/NG (Not OK) count function, you can review results of pass/fail tests as well.
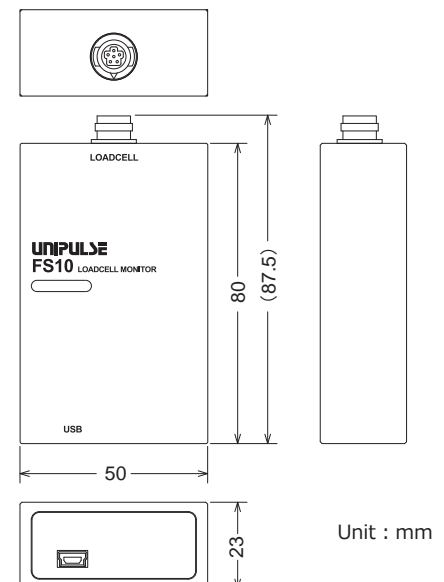
Compact load cell
USB converter

FS10

Setup & calibration

Data logging

Waveform display
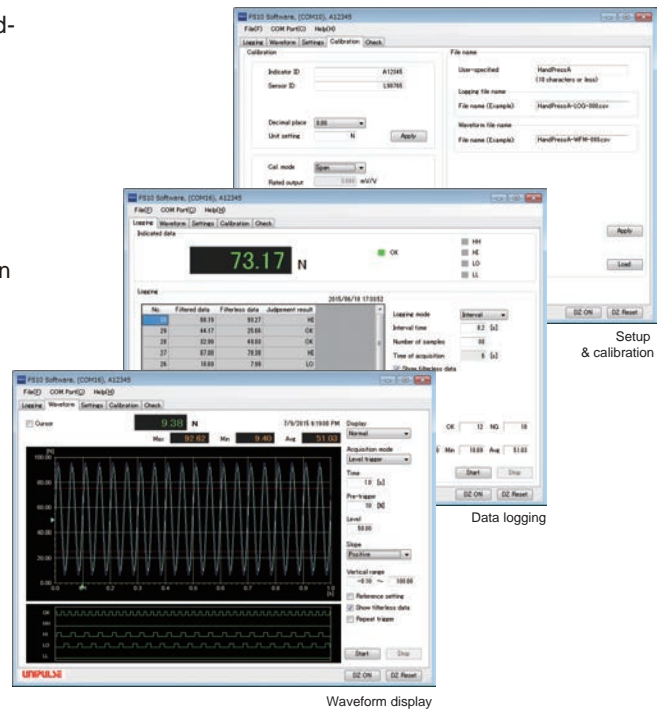
Specifications

Analog section	Excitation voltage	DC5V±10％　Output current within 30mA
	Signal input range	－3.0〜＋3.0mV/V
	Accuracy	Non-linearity　　within 0.02%FS±1digit Zero drift：　　　within 0.5μV/℃ Gain drift：　　　within 0.01%/℃
	Digital low-pass filter	fc＝OFF, 2, 4, 6, 8, 10, 30, 50, 100 Hz (selectable)
	A/D converter	Speed：　　　　1200 times/sec（Same for data output） Resolution：　　24bit（binary） Approx. 1/30000 with respect to 3mV/V
Display	LED status light	LED（Red）：　　power supply/alarm status LED（Green）：　Loaded condition
Interface		USB
General performance	Power supply	DC5V（USB bus power）
	Power consumption	1W typ
	Operating conditions	Temperature: Operation：－10℃〜＋40℃ 　　　　　　　　Storage：－40℃〜＋80℃ Humidity：80%RH or less（non-condensing）
	Dimension	50（W）×23（H）×80（D）mm（Projections excluded）
	Weight	Approx. 120g
Attachment		Setup guide･･･1、Cable for connecting loadcell 1m･･･1、 USB cable（A-miniB type）1.8m×1
Accessories		CA81-USB：　USB cable（A-miniB type）1.8m CA903Y30：　Cable with waterproof plastic connector at one-end 0.3m CA903Y31：　Cable with waterproof plastic connector at one-end 3m CA904030：　Waterproof plastic connector-PRC connector conversion relay cable 0.3m CA904031：　Waterproof plastic connector-PRC connector conversion relay cable 3m CN90：　　　Waterproof plastic connector for loadcell

Dimension

LOADCELL

UNIPULSE
FS10 LOADCELL MONITOR

USB

80
(87.5)
50
23

Unit : mm