

## MEMS mini logger



### Description

Model **ACE-900 MEMS mini logger** is developed specifically for MEMS (Micro electro mechanical system) tilt sensors and is designed as 2-channel to simultaneous measurement of 2-axis sensors. It is a mini data logger that can measure MEMS inclinometer, voltage (mV) sensor and current (mA) sensor, also can do for long-term unattended automation.

MEMS mini logger is powered by a 12V, -12V and constant voltage 5V output terminal. It can be measured a wide voltage range from -12V ~ 12V and current sensors from 4 ~ 20mA to collect data from most existing electrical sensors.

By installing and automatic operating the mV output sensor such as MEMS inclinometer, ELS sensor, semiconductor sensor and 4 ~ 20mA output type sensor at a specific point, it can solve the inconvenience of daily data acquisition.

In case of the communication method with the PC, it can be freely selected as RS-232, USB and RS-485 according to the user's convenience and usage. The data can be downloaded the fastest when using USB communication.

The power supply is basically equipped with 4EA of 6V C class alkaline batteries. It is designed with low power and can be used without battery replacement for 6 months if measured in 1 hour unit. It is also possible to use continuously by applying direct power to external power input port.

### Features

- User-friendly software
- Low-cost automatic measurement can be performed in a small field
- Multi-system construction using RS-485 communication
- Optimal for safety diagnosis and operation of a small number of measuring instruments
- Battery is available for 6 months without change
- 1 second minimum measurement storage unit
- Measurement of voltage(mV), current(mV)
- Working in all weather conditions from the wide range of working temperature
- Automatic calculation to engineering unit by PC software of automatic calculation function

### Specification

Model	ACE-900
Applied sensor	① MEMS sensor ② ELS sensor ③ Potentiometer ④ 4~20mA sensor
Measurement range	① -12 V ~ 12 V ② 4~20 mA
Resolution	0.1mV / 0.001mA
Accuracy	0.1 %FSR
Operating temperature	-40~60°C
Output voltage	12V, -12V, constant voltage 5V
Channel	2 Ch
Communication port	RS-232, RS-485, USB(B type)
Data capacity	30,000 data points
Selection units	Selection of voltage (mV) or current (mA)
Data memory	Memory 16MB Flash
	Time accuracy 0.001% (1min/month)
	Time format Year, Month, Day, Hour, Minute, Second
	Data array Data sorting by logger ID
Power	6 VDC alkaline battery (possible to measure for 6 months) Option : external power 9VDC
Dimensions	180 X 150 X 75mm
Weight	0.7kg
Case	ABS case
Accessories	RS-232 Cable, 1.5V alkaline battery 4EA



[MEMS inclinometer connection]



[ELS inclinometer connection]



[Potentiometer connection]



[Semiconductor type piezometer connection]