

MEMS readout unit



Description

Model ACE-1500 MEMS readout unit which is a versatile output device can measure MEMS sensor, ELS sensor, voltage sensor (mV), current sensor (mA), thermistor sensor and platinum resistance temperature sensor (PT-100).

The ACE-1500 can read voltage output sensors (-12V ~ 12V), ELS tilt sensor, MEMS inclinometer and potentiometric sensor also read current sensors (4 ~ 20mA) as sensors of semiconductor. It also has the function of measuring the general temperature sensor PT-100 and the NTC thermistor 3kΩ temperature sensor. It can be compatible with most electrical and current sensors, including third-party ELS sensors, potentiometers, and MEMS sensors.

It has a function to measure most of the existing electric sensors and can supply power to the sensors via 12V, -12V, 5V output terminals.

Model ACE-1500 can output two sensors A and B at the same time. It can be used in checking battery residual, side range measurement voltage (mV) mode of -12V ~ 12V, precise measurement voltage mode of -5V ~ 5V, current value (mA), thermistor and PT-100 temperature measurement, backlight function, and power saving mode.

12V charging circuit is applied and can be used continuously for 17 hours in one charge.

The outer case is impact resistant ABS plastic case that is waterproof and moistureproof and can be used in any bad condition. It is very light and comfortable to carry.

Features

- Automatic powered-off
- Possible to use at a low and high temperature (Adjustment of LCD light)
- Waterproof, moisture proof, impact resistance and portable structure
- High resolution & precision with reliability
- Possible to measure at night with back light function loaded
- Possible to supply to 12V, -12V, constant voltage 5V sensor
- Voltage, current and temperature sensor can be measured
- No malfunction by using membrane keys

Functions

- On, Off function
- Back light function
- Showing remaining battery
- Voltage(mV), current(mA) measurement mode
- Thermistor 3kΩ, PT-100 temperature measurement mode
- 2 channels simultaneous measurement and 1 channel independent measurement function

Specification

Model	ACE-1500
Applied sensor	① MEMS sensor ② ELS sensor ③ Potentiometer ④ 4~20mA sensor ⑤ PT-100 temperature sensor ⑥ Thermistor 3kΩ
Measurement range	① -12V ~ 12V ② -5000mV ~ 5000mV ③ 4~20mA ④ -40 ~ 105°C
Resolution	0.1mV, 0.001mA, 0.1°C
Accuracy	±0.1% FSR
Display units	mV, mA, °C
Output voltage	12V, -12V, constant voltage 5V
Operating temperature	-20~50°C
Display	128×64 graphic LCD
Functions keyboard	7 membrane function key pad
Power	7.2VDC / Rechargeable Ni-MH battery
Battery life	About 17 hrs continuous
Dimensions	273×248×127mm
Weight	1.8kg
Material of case	ABS plastic case
Accessories	Rechargeable Adaptor