

MEMS readout unit



Description

The model ACE-1500 MEMS readout unit which is a versatile output device can measure MEMS sensor, ELS (Electrolytic Level 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 to +12V), model 5420 ELS beam sensor, MEMS inclinometer and ELS tilt sensor also read current sensors(4~20mA) as semiconductor sensors.

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 MEMS readout unit can output two sensors A and B at the same time. It can be used in checking battery residual, wide 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℃ |
| Resolution | 0.1mV, 0.001mA, 0.1℃ |
| Accuracy | ±0.1% FSR |
| Display units | mV, mA, ℃ |
| Output voltage | 12V, -12V, constant voltage 5V |
| Operating temperature | -20~50℃ |
| 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 |