

# Single Battery Acquisition Module | OM-BOD-L102D (2V)



The OM-BOD-L102D measures individual 2V battery voltage, internal resistance, and temperature. It integrates with DC voltage transmitters, Hall sensors, and battery monitoring hosts for complete battery supervision. Automatic address encoding upon connection eliminates manual configuration for rapid deployment. Using SNS bus communication, up to 64 modules can be daisy-chained per channel. Simple installation.

## Specifications

### Power Supply

Voltage	1.5 ~ 3.0V DC
Protection Method	Fuse
Overcurrent Protection	1A
Operating Current	Normal acquisition: $\leq 11\text{mA}$ @ 2.25V; Difference current between modules: $\leq 0.5\text{mA}$
Sleep Current	$\leq 0.5\text{mA}$

### Measurement Parameters

Voltage Range	1.5 ~ 3.0V DC
Voltage Accuracy	$\pm 0.1\%$ (FS) @ 25°C
Temperature Range	-10°C ~ 99.9°C
Temperature Accuracy	$\pm 0.5^\circ\text{C}$ (-5°C ~ 50°C)
Internal Resistance Range	100 ~ 65535 $\mu\Omega$
Internal Resistance Repeatability	$\pm(2\% + 3\mu\Omega)$ @ 25°C

### Isolation

Isolation Voltage	4200V
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### SNS Bus Interface

Quantity	2 ports
Connector Type	RJ45 (T568B)
Baud Rate	4800 bps
Address Setting	Automatic address encoding, range 1 ~ 255

### Operating Environment

Operating Temperature	-40°C ~ 85°C
Operating Humidity	5% ~ 95% RH (non-condensing)

### Indicators

Long Flash	Device power-on
Slow Flash	Normal communication
Fast Flash	Internal resistance acquisition in progress

### Mechanical Specifications

Dimensions (L × W × H)	75 mm × 46 mm × 26.4 mm ( $\pm 2$ mm)
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