Battery Sense

Remote Temperature and Voltage Sensor



18–200 Vdc
Voltage sense input

CAN RJ45
To the CoolMax SRX

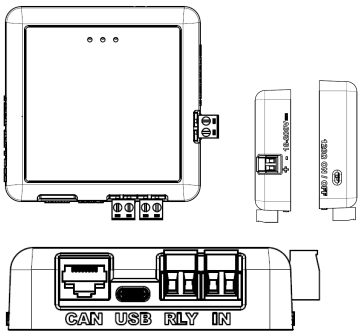
12 V / 2 A
Float output relay

0.1 W
Idle consumption

Specifications

Battery Sense · BAT-SENSE

The Battery Sense is an accessory for the AERL CoolMax SRX solar charge controller. Mounted beside the battery bank, it measures the battery's temperature and its voltage at the terminals and sends them to the SRX over CAN bus, so the controller compensates its charging for temperature (factory default 50 mV/°C per bank, set in AERL Link) and monitors the battery more accurately. Use it on banks that do not report their own temperature, typically flooded or sealed lead-acid; a battery whose BMS reports its temperature over CAN, such as an AERL LiFe², needs no Battery Sense.



Top view, voltage input and termination switch sides, connector side (CAN · USB · RLY · IN). Not to scale.

General

Weight	**0.25 kg**
Enclosure type	**Indoor Type 1 / IP20**
Mounting	**Double-sided adhesive tape**
Voltage input connector	**Screw terminals, 0.5–2.5 mm²**
Terminal torque	**0.5 N·m**

Electrical

Voltage input range	**18–200 Vdc**
Power supply	**5 V from the SRX CAN port**
Self-consumption at idle	**0.1 W**
Float indication output	**NO relay, 12 V / 2 A, fused**
Float switch input	**NO, voltage-free**
Status indicators	**Active, Fault, CAN activity**

Communication

Interface	**CAN bus (RJ45)**
Maximum cable length	**10 m, CAT6**
Termination	**120 Ω, switchable**
Controller	**CoolMax SRX**

Environmental

Operating temperature	**−20 to 50 °C**
Storage temperature	**−30 to 70 °C**
Relative humidity	**95%, non-condensing**
Maximum altitude	**2000 m**

- Temperature-compensated charging from the battery's own temperature
- Float switch input and float indication relay for other chargers
- Battery voltage read at the battery terminals
- Data and power over one CAN cable to the SRX

AERL reserves the right to change any product, product specifications and data without notice to improve reliability, function, or design or otherwise.

Manufactured by

Australian Energy Research Laboratories
1/75 Bluestone Circuit, Seventeen Mile Rocks
QLD 4073

Origin and warranty

Australian made
2-year warranty

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