veratron
MARINE

INTELLIGENT BATTERY SENSOR 12V GEN.2

KEY FEATURES

✓ Accurate measurement of battery voltage, current and temperature parameters

✓ Determination of the battery state of charge (SOC), state of health (SOH) condition parameters

✓ Simple electrical and mechanical integration

IBS BENEFITS

The intelligent battery sensor (IBS) informs you about the current energy status, allowing you to plan your energy supply.

The intelligent battery sensor is the key element of the vessel's energy management.

The IBS reliably and accurately measures the battery voltage, current and temperature parameters. Information on the state of charge (SOC) and state of health (SOH) of the battery is calculated algorithmically using these measurements.

By using the intelligent battery sensor, the energy management system can react quickly in case of critical battery state and influence both consumer behavior and the alternator.

DESIGN AND FUNCTION

The IBS is attached directly to the negative pole of the battery via the pole terminal. Alongside the terminal, the mechanical portion of the battery sensor consists of the shunt and grounding bolt. The shunt is attached to the vehicle's load path and is used as a measuring resistor to measure the current indirectly. The ground cable can be conveniently attached to the grounding bolt through the provided battery pole adapter.

1. **Sensor shunt**
2. **Hirschmann plug**
   872-858-565
3. **Sensor module**
4. **Negative terminal clip**
5. **Screw-on bolt** for battery pole adapter

TECHNICAL DATA

TECHNICAL DATA	
Operating voltage	6 – 18 V
Operating current (permanent)	± 200 A
Maximum current	± 1500 A (500 ms)
Protection class	IP 6K7
Power consumption	≤ 10 mA (normal mode) ≤ 200 µA (sleep mode)
Max battery capacity	500 Ah
Operating temperature	–40°C to 115°C
Grounding bolt	M6
Output signal	LIN 2.0 or higher

DIMENSIONS
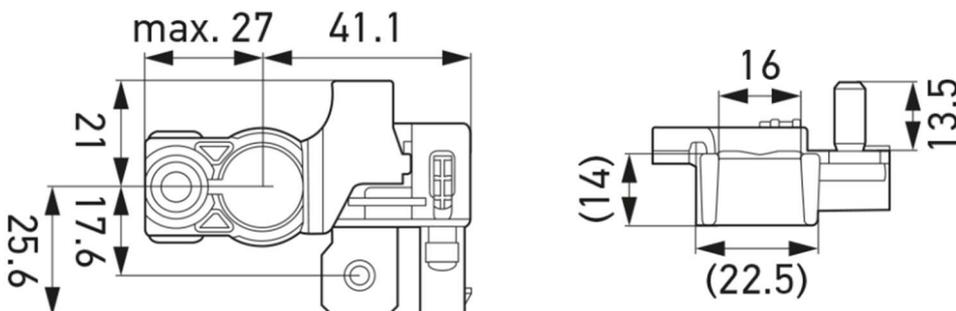
PIN ASSIGNMENT
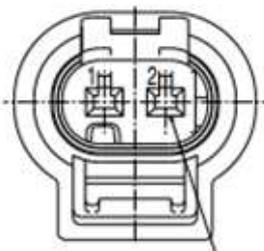
Pin 1: +12V Power Supply
Pin 2: LIN Bus

PART NUMBER

PART NO.	VARIANT
B00084201	Intelligent Battery Sensor 12V (Gen2)

Rev.AA