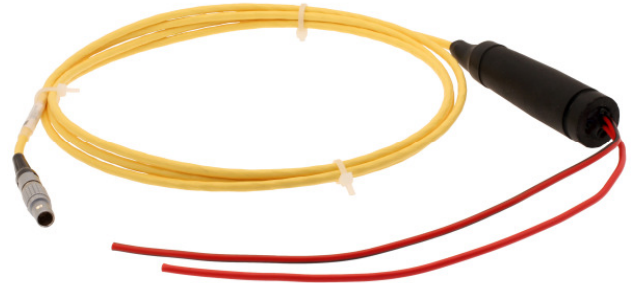




CSMshunt 025A classic

- ▶ Universal applicable, shunt-based and precise, adapter solution for current measurement under extreme environmental condition, to insert into current path
- ▶ Suitable for connection to CSM AD-Scan MiniModules via CSM standard connector LEMO 0B 6-pole or customer-specific connector
- ▶ Available in several current ranges
- ▶ Integrated electronic signal processing and signal amplification
- ▶ Operating temperature: -40 °C to +85 °C
- ▶ Excellent price-performance-ratio



The **CSMshunt classic** expands the usability of the AD-Scan MiniModule. It enables the user to measure current in a **precise and accurate** way, even under hard environmental conditions.

The CSMshunt classic is directly inserted into the current path. The already existing original fusing completely persists. Additionally, we can offer a solution with customer's standard plugs. This allows to rebuilt the original functional and save capability of the current loop after measurement.

The shunt-based measurement solution characterizes not only the optimum matching to AD-Scan Mini Modules in particular by the **high temperature-resistance**, but also its **excellent accuracy**.

In addition, the power supply of the integrated electronic signal-processing and signal-amplification of the CSMshunt classic is electrically isolated. The electronical isolation of the measurement signal is carried by the measuring module, so that interspersion will not cause any measurement errors.

- ▶ Monitoring of sleep- and recovery behaviour of ECUs
- ▶ Measurement of discharge and charge current of the battery (charge balance)
- ▶ Monitoring and logging of the battery status for vehicle transport, particularly ocean transport
- ▶ Error analysis in the service garage for error identification in "non-mobility vehicles" and other electric-/electronic-problem vehicles
- ▶ Long term monitoring of vehicle current during continuous vehicle operation

Customer modification

In addition to the standard version of the CSMshunt classic (Input: open wires 2.5 mm, Output: 0B LEMO 6-pole connector), almost any custom input/output connector combinations are practicable. **Please contact us personally!**

Typical field of application

- ▶ Acquisition and monitoring of current in operational mode
- ▶ Acquisition and monitoring of current in sleep mode
- ▶ Detection of "electricity hogs" to avoid battery problems in serial production

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Specifications CSMshunt

Technical Data	CSMshunt 025A classic
Input Measurement Range	± 25 A (Shunt 2 mOhm) ¹⁾
Threshold Frequency	1.4 kHz
Accuracy at 25 ° C	0.6 % of measurement value ± 2.5 mA
Temperature Drift	typ. ± 60 ppm/K
Galvanic Isolation Supply Measurement Signal	500 V DC none ²⁾
Power Supply	12 V – 15 V DC
Current Consumption	typ. 12.5 mA at 12 V DC
Output Voltage	± 10 V at ± 25 A input current
Maximum Load	$R_L > 20$ kOhm
Maximum Overcurrent (t < 5 s)	50 A
Dimensions (W x H x L) Weight	approx. 20 x 20 x 100 mm plus cable approx. 120 g
Operating Temperature Protection Class	-40 °C to +85 °C IP67
Storage Temperature Relative Humidity	-55 °C to +125 °C 5 % to 95 %
Connectors Input Output	Open end, 2.5 mm ² copper wire LEMO 0B 6-pole ³⁾
Conformity	CE

1) Other variants on request

2) The galvanic isolation of the measurement signal must be done within the measurement module. This is ensured by using the AD-Scan MiniModules.

3) Optional available in other variants, LEMO 1B 6-pole or Fischer 6-pole

Part numbers

CSMshunt 025A classic 2,0m LEMO 0B 6-pole ART0201701

For further technical information and references, please contact our technical sales.