



FlexMeasure-S

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BENEFITS

- Internal measurement via a Hall sensor
- Current measurement on lines up to 60 A
- Suitable for 2-wire high current cable
- Ambient temperature up to 105°C

CURRENT MEASUREMENTS VIA A HALL SENSOR

The robust FlexMeasure-S was developed especially for measuring currents in high-voltage line in passenger vehicles. Due to the flexible connecting options, the ISI current inline can be integrated in existing circuits of up to 60A without problems. The measuring values are exported as analog signal with a measuring output voltage of 0 V to ± 10 V via a BNC socket.

The current measurement is conducted internally by a Hall sensor. Therefore, voltage drops as they can occur in shunt measurements are to be disregarded when using the FlexMeasure-S.

With its 2 internal connectors, the FlexMeasure-S is suitable for current measurement on 2-wire high-voltage cables that can be comfortably attached to the measuring system with the help of cable lugs and due to the demountable lid.

The two cable glands (type blueglobe TR I) for cable outside-diameter of 9 to 14 mm warrant the secure seal and strain-relief as well as a good contact between cable shield and casing.

FlexMeasure-S

FIELDS OF APPLICATION

- Measurement on air-conditioning compressor or on-board charger
- Hybrid and electronic vehicles
- Classic vehicle at 12 V and 24 V on-board network
- Current measurement in test benches

VARIATIONS

- Measuring range of ± 60 A
- Measuring range of ± 30 A

CHARACTERISTICS

- Current measurement in lines up to 60 A
- Extended supply voltage range: 9 V – 28 V
- Ambient temperature up to 105°C
- Measuring offset: $\leq \pm 1$ %
- Linearity error: $\leq \pm 1$ %
- Insulation resistance at 2,500V: $> 1T$.
- Measurement output voltage: 0 V to ± 10 V (the negative output voltage can be suppressed via an internal jumper.)

ORDER NUMBER

70006510 (± 60 A)

SCOPE OF DELIVERY

- FlexMeasure-S (device)
- Voltage supply cable LEMO on banana plugs, length 1m
- Manual

ACCESSORIES (OPTIONAL)

- Adapter cable set on demand

TECHNICAL DATA

	FlexMeasure-S
Supply voltage	9 V – 28 V
Output voltage	0 V – ± 10 V
Insulation resistance	1T Ω (at 2500 V)
Current consumption at 12V	app. 30 mA
Measuring range	Up to ± 60 A
Measuring offset	$\leq \pm 1$ %
Measuring precision at $I_{max}/3$ and T-25°C	$\leq \pm 1$ %
Temperature drift zero point	$\leq \pm 0,03$ % / K
Temperature drift gain	$\leq 0,05$ % measuring value / K
Maximum measuring frequency	50 kHz
Output voltage ripple	100m Vpp
Operating temperature range	-40°C to +105°C
Output plug measuring signal	BNC
Voltage supply plug	LEMO EXJ.1B.302.HLD
Additional earth connection	Threaded bolt M6
Maximum cable diameter high-voltage line	14 mm
Dimensions	125 x 80 x 57 mm (without plug and PG)
Safety kind	IP 51