

CW-421

SHUNT UP TO 30 A



The CW-421 is a measuring shunt for currents ± 30 A; it is designed for measurements in the automotive sector. The CW-421 is supplied with a rugged aluminium housing, which is equipped with a receptacle for blade-type fuses. The connection cable of the shunt is equipped with fuse contacts. That means the shunt can be inserted into the vehicle fuse box as a direct replacement for fuses. On the one hand, using the original fuses in the shunt means the circuit is protected by fuses specified for the vehicle in accordance with applicable regulations. On the other hand, using the shunt directly in the circuit makes it possible to measure the current flowing in this circuit.

The measured value is issued by means of an analog output voltage from 0-10 VDC, which can, for example, be converted to a CAN signal by the CW-327 A/D converter from the CW-300 series. The accuracy of the shunt is 1%.

The small form factor and the range of the power supply from 9-15 VDC mean the CW-421 is extremely suitable to guarantee numerous current measurements in a vehicle fuse box.

PERFORMANCE CHARACTERISTICS

- Measurement range: ± 30 A
- Accuracy: 1 % of measurement range
- Temperature range: -40 °C to 85 °C
- Rugged aluminium housing
- Functions directly in the fuse box circuit
- Receptacle for original fuses on housing
- Supports TEDS

CURRENT MEASUREMENT

| | |
|-------------------|---|
| Number | 1 |
| Measurement range | ± 30 A |
| Accuracy | 1 % of measurement range (at 25 °C) |
| Connector | Safety contacts for blade fuse socket, cable length 50 cm |

POWER SUPPLY

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|----------------|-----------------|
| Supply voltage | 9 VDC to 15 VDC |
| Connector | Lemo FWG.1B.306 |

ENVIRONMENTAL CONDITIONS

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|-----------------------------|------------------------------|
| Temperature range operation | -40 °C to +85 °C |
| Temperature range storage | -40 °C to +85 °C |
| Relative humidity | 35 % to 85 %, non-condensing |

GENERAL INFORMATION

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|--------------------|-----------------------|
| Housing | Rugged aluminum case |
| Dimensions (LxWxH) | 40 mm x 20 mm x 20 mm |
| Weight | 65 g |

FURTHER DEVICES CW-400 SERIES

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| CW-401 Clamp meter up to 30 A | CW-425 Quiescent current measurement |
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FURTHER DEVICES CW-300 SERIES

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| CW-301 CAN controlled Power Supply | CW-325 Bus and Signal multiplexer |
| CW-302 Development work station | CW-326 Failure Injection Unit |
| CW-305 Cable tester | CW-327 A/D-Converter |
| CW-310 Wheel Speed Pulse Conditioning | CW-328 Current Measurement Interface |
| CW-311 Raddrehzahlsensor- und Wheel Unit Simulation | CW-329 3-fold Signal Relay Interface |
| CW-321 Power Relay-Interface | CW-390 High Load Relay up to 35 A |
| CW-322 20-Fold Signal Relay-Interface | CW-391 High Load Relay up to 70 A |
| CW-323 D/A-Converter | CW-392 High Load Relay with integrated current measurement |
| CW-324 Current Sink | |