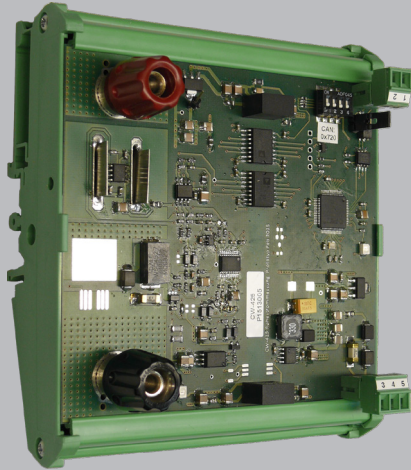


CW-425

QUIESCENT CURRENT MEASUREMENTS



The CW-425 offers a simple possibility to obtain highly precise measurement of quiescent and operating current of devices (e.g. electronic control unit). It offers a total measurement range from 0 to 30 A, divided into three measurement ranges. Switch-over of measurement ranges is automatically performed within 2 μ s (max.) during ongoing operations.

The measured values are transmitted via CAN interface. Device settings such as baud rate and output transfer rate can easily be configured via simple CAN messages. Delivered with a bus description file (DBC file), it possible after import in common automotive software tools, to display the measured values. The insulation voltage of up to 1000 VDC between the measuring circuit and the control circuit offers sufficient protection for other devices in the control circuit.

The module is available as a favourably priced top-hat rail version as well as in a rugged desktop housing with a higher protection class. The CW-425 is destined for automated measurement of quiescent and operating currents of electronic control units, for example in automotive industry. At the same time the CW-425 is an ideal supplement for our CW-300 series designed for test bench applications.

PERFORMANCE CHARACTERISTICS

- Single device to measure quiescent and operating current
- Measurement range from 0 μ A to 30 A
- Accuracy of 0,04 % in lower measurement range
- Dynamic, seamless changeover of measurement ranges
- Control via CAN bus
- Top-hat rail housing and rugged desktop housing available

CURRENT MEASUREMENT CHANNEL

Number:	1
Measurement range:	0 μ A to 30 A (total)
Measurement range 1:	0 μ A to 30 A, resolution 1 μ A, accuracy 0,04 % (rel. to measurement range)
Measurement range 2:	10 mA to 80 mA, resolution 1 μ A, accuracy 0,06 % (rel. to measurement range)
Measurement range 3:	80 mA to 30 A, resolution 1 mA, accuracy 1,5 % (rel. to measurement range)
Connector:	Pin-connector with 4 mm laboratory plugs or 7 mm cable lug
Measuring range switch-over:	Automatic switch-over between measurement ranges in 2 μ s

CAN-INTERFACE

Number:	1
Type:	ISO 11898-2 (Highspeed) CAN-protocol version 2.0 A and 2.0 B, supports SAE J1939 (29-bit-identifier)
Data rate:	50, 100, 125, 250, 500, 800 and 1000 kbit/s
Termination:	120 Ω , activation via Jumper
Connector:	Phoenix-connector MC 1,5/2-ST-3,81 (2-pin)

POWER SUPPLY

Supply voltage:	12 VDC to 24 VDC
Current consumption:	85 mA at 12 VDC
Connector:	Phoenix-connector MC 1,5/3-ST-3,81 (3-pin)

ENVIRONMENTAL CONDITIONS

Temperature range operation:	-20 °C to +65 °C
Temperature range storage:	-20 °C to +85 °C
Relative humidity:	35 % to 85 % non-condensing

GENERAL INFORMATION

Housing:	45 mm DIN-Top-hat rail housing, optional rugged desktop housing
Dimensions (LxWxH):	126 mm x 110 mm x 35 mm
Weight:	180 g
Calibration:	DAkkS-Calibration on request

FURTHER DEVICES CW-400 SERIES

CW-401 Clamp meter with CAN Interface up to 30 A
CW-421 Shunt