

Product Information

CAN Stick

Universal amplifier supported by the Federal Ministry of Economics and Technology based on a resolution by the German Bundestag.

Characteristics

The SIQUAD **CAN Stick** offers computer-controlled signal conditioning of various sensors. It has 1 DSP per unit. There are 2 versions depending on the sensor requirements. Signal output is digital via CAN. Protocol is CAN 2.0B. Parameter setting is done with the software DaSoft via a USB-to-CAN interface. Signal filtering can be configured from 3..2000 Hz at 20 kS/s sample rate.

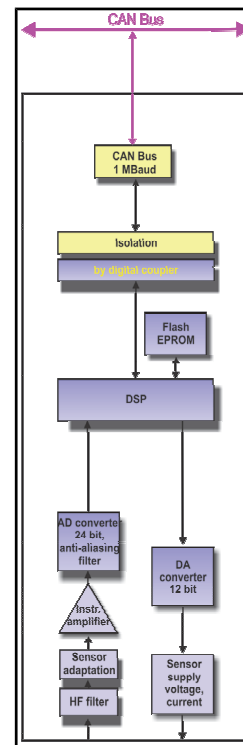


Technical Data

General	Accuracy	see sensors
	Channels/unit	1, isolated
	AD converter	24 bit / channel
	Sample rate	Appr. 20 kHz (51.2 µs)
	Band width	Appr.5 kHz
	Digital output	CAN
	Input protection	± 100 V, ESD IEC 1000-4-2
	Supply voltage	9..36 V DC
	Sensor supply	0.5, 1.0, 2.5, 4 V (50 mA), 24 V (40 mA)
	Environmental temperature	0..+50 °C
Strain gauge bridges	Range	0.5, 1, 2, 4, 5, 10, 25, 50 mV/V
	Accuracy	± 0.03 %
	Sensor supply	0.5, 1, 2.5, 4.5 V (> 120 Ω)
Voltage	Type of bridge	Full/half bridge (> 120 Ω), quarter bridge (120 Ω, 350 Ω)
	Range	0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50, 80 V
	Accuracy	± 0.05 %
	max. input voltage	80 V
	Impedance	100 kΩ (> 5 V range)
Signal current	Diff. input	yes
	Range	± 20 mA, 4..20 mA
Current transmitter	Accuracy	± 0.1 %
	Sensor supply	24 V (max. 40 mA)
Potentiometer 3-wire conn.	Range	6.25, 12.5, 25, 50, 100%
	Accuracy	± 0.1 %
	Sensor supply	2.5 V
Thermo couples J,K (others opt.)	Range	±100, ±200, -200..+500, -200..+1000 °C
	Accuracy	± 0.1 % (without CJC)
Pt100	Range	±100, ±200, -200..+500, -200..+1000 °C
	Accuracy	± 0.1 %
ICP® sensors	Range	1, 2, 5, 10 V
	min. input frequency	appr. 7 Hz
	Accuracy	± 0.1 %
	Sensor supply	4 mA, 22 V
Frequency analog	Range	5, 10, 20, 50, 100, 200, 500 Hz, 1, 2, 5, 10, 20 kHz
	Accuracy	± 0.05 %
	Input voltage	± 0.02..70 V

Frequency digital	Range	5, 10, 20, 50, 100, 200, 500 Hz, 1, 2, 5, 10, 20, 50, 100, 200, 500 kHz
	Accuracy	± 0.05 %
	Input voltage	TTL / CMOS (≥ 3.5 V)
Torque meter, Telemetry (Discriminator)	Range	Free entry of mid frequency and stroke, max. 100 kHz
	Accuracy	± 0.05 %
	Input voltage	TTL / CMOS (≥ 3.5 V)
Incremental encoder	Range	Variable, set by no. of pulses
	Accuracy	± 0.05 %
	Input voltage	TTL / CMOS
	Direction sense/sync	without, static, dynamic / with sync, without sync
PWM sensors	Range	100 Hz, 1 kHz, 10 kHz
	Accuracy	± 0.2 %
	Input voltage	TTL / CMOS (≥ 3.5 V)

Block Diagram



Dimensions

165 x 25 x 35 mm (WxHxD)

Ordering Code

SCC1 - 1. - 2.

1. Model	Uni1	1 universal channel
2. Terminal	BB7	7-pole Binder socket (standard)
	LB7	7-pole Lemo socket

Thermocouples have to be connected via an adapter cable (connector to TC-Mini) with integrated CJC