

SIQUAD DC4 SIQUAD DC8

Characteristics

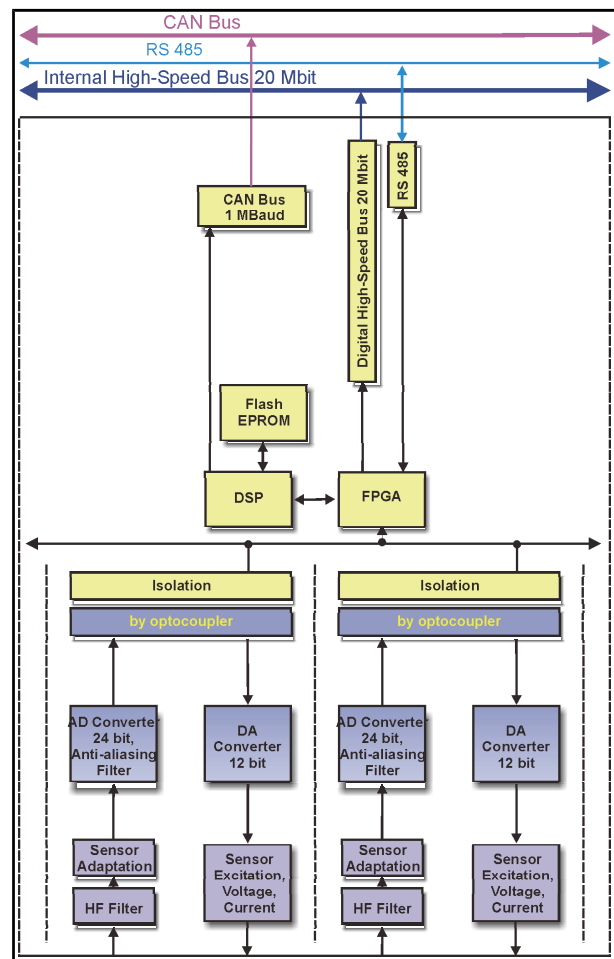
The SIQUAD **DC Amplifier** offers computer-controlled signal conditioning of voltage or current signals. It has 1 DSP per unit. Signal output is digital via Ethernet and CAN and optional with high precision via analog outputs. Parameter setting is done with the software DaSoft. Signal filtering can be configured from 3..3000 Hz at 20 kS/s sample rate.



Technical Data

General	Channels/unit	4, isolated (8, isolated inputs with common reference ground)
	AD converter	24 bit / channel
	Sample rate	20 kHz (10 kHz)
	Band width	5 kHz (3 kHz)
	Analog output optional	± 10 V / 12 mA (short proof) 16 bit resolution
	Digital output	SPI (internal), CAN
	Input protection	± 100 V ESD IEC 1000-4-2
	Supply voltage	+5 V / 450 mA
	Environmental temperature	0..+50 °C
Voltage	Range	0.01 / 0.02 / 0.05 / 0.1 / 0.2 / 0.25 / 0.3 / 0.5 / 0.6 / 1 / 2 / 5 / 10 / 20 / 50 / 100 V
	Accuracy	± 0.03 % / ± 0.1 % (DC8)
	Input impedance	400 kΩ (up to 1V range) 160 kΩ (from 2V range)
	Differential input	Yes
	Sensor supply	optional via power supply for 4-channel version
Signal current	Range	± 20 mA / 4..20 mA
	Accuracy	± 0.05 % / ± 0.1 % (DC8)
	Differential input	Yes

Block Diagram (exemplary for 2 channels)



Dimensions

19" plug-in unit, 3 U height, 5 U width, depth 160 mm

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Product Information

Ordering Codes

SIQUAD-DC4- 1. - 2. - 3. - 4.

1. Terminal	
BNC	BNC socket (standard)
BB5D	5-pole Binder socket (DIN assignment)
BB7	7-pole Binder socket
LB7	7-pole Lemo socket
2. Model	
U	Voltage
I	Current
U/I	Voltage/Current switchable 50 Ω, ±20 mA, 4..20 mA
ITR	for current transmitter incl. 24 V DC supply
3. Option internal sensor supply	
24V	Sensor supply 24 V, max. 40 mA
4. Options output	
4 AO BNCR	4 analog outputs wired to back panel with BNC sockets
4 AO BNCF	4 analog outputs wired to front panel 10 U with BNC sockets parallel to input sockets

SIQUAD-DC8 - 1. - 2.

1. Terminal	
PHOE 16	8 channels with common isolated inputs on Phoenix Combicon screw terminals
2. Option output	
8 AO BNCR	8 analog outputs wired to back panel with BNC sockets