

**Product information**

**Computer Controlled Measurement Amplifiers**

**SIQUAD DC4  
 SIQUAD DC8**

**Characteristics**

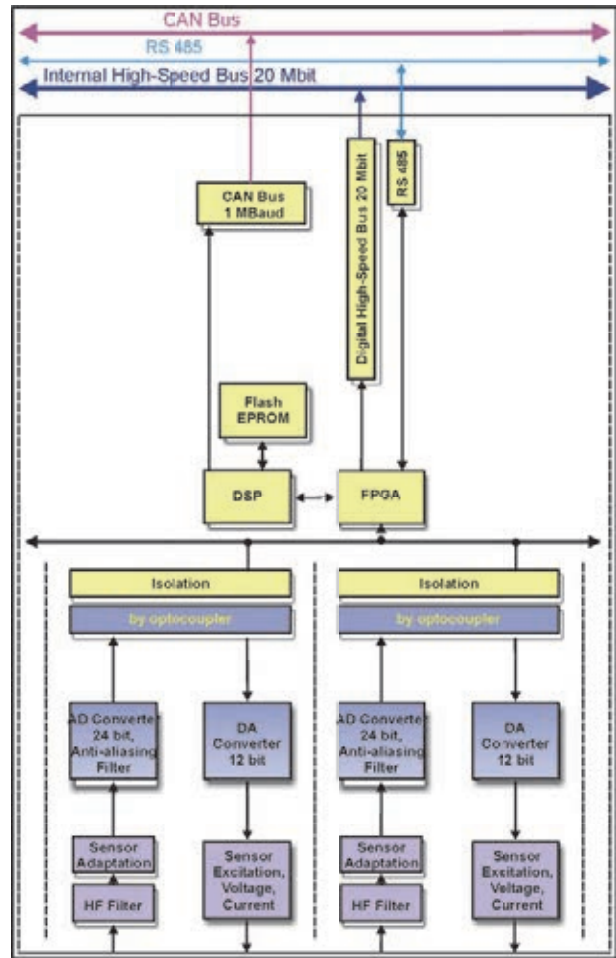
The SIQUAD *DC Amplifier* offers computer-controlled signal conditioning of voltage or current signals. It has 1 DSP per unit. Signal output is digital via Ethernet and CAN and optional with high precision via analog outputs. Parameter setting is done with the software DaSoft. Signal filtering can be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



**Technical Data**

<b>General</b>	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 Environmental temperature	+5 V / 450 mA 0..+50 °C
<b>Voltage</b>	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
<b>Signal current</b>	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

... continued next page

**Product information**

**Computer Controlled Measurement Amplifiers**

**Ordering Codes**

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

<b>1. Terminal</b>	
BNC	BNC socket (standard)
BB5D	5-pole Binder socket (DIN assignment)
BB7	7-pole Binder socket
LB7	7-pole Lemo socket
<b>2. Model</b>	
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
<b>3. Option internal sensor supply</b>	
24V	Sensor supply 24 V, max. 40 mA
<b>4. Options output</b>	
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.

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