

**Product Information**

**SIQUAD DC4**  
**SIQUAD DC2HV**  
**SIQUAD DC8**

**Characteristics**

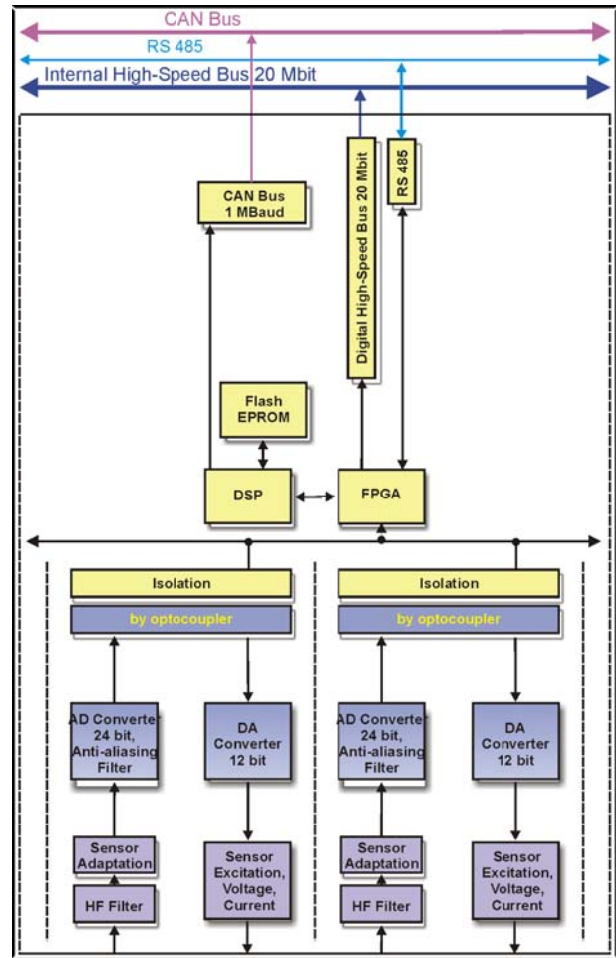
The SIQUAD *DC Amplifier* offers computer-controlled signal conditioning of voltage or current signals. It has 1 DSP per unit. For high voltage up to 1000 V, a 2-channel version is available. Signal output is digital via Ethernet and CAN and optional with high precision via analog outputs. Parameter 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 2 (with HV), 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 (± 1kV at
	Supply voltage	+5 V / 450 mA
<b>Voltage</b>	Environmental temperature	0..+50 °C
	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 %
	Input impedance	400 kΩ (up to 1V range) 160 kΩ (from 2V range)
	Differential input	Yes
<b>Signal current</b>	Sensor supply	optional via power supply for 4-channel version
	Range	± 20 mA / 4..20 mA
	Accuracy	± 0.05 %
<b>High voltage</b>	Differential input	Yes
	Range	10 / 20 / 50 / 100 / 200 / 400 / 800 / 1000 V
	Accuracy	± 0.1 %
	Input impedance	1 MΩ

**Block Diagram (exemplary for 2 channels)**



**Dimensions**

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

**Ordering Codes**

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

<b>1. Terminal</b>	BNC	BNC socket (standard 1)
	BB5D	5-pole Binder socket (standard 2)
	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

... continued next page

**Product Information**

**Ordering Codes**

SIQUAD-DC2HV - <sup>1.</sup> - <sup>2.</sup>

<b>1. Terminal</b>	
BANHV	2x High Voltage Banana sockets
<b>2. Options output</b>	
2 AO BNCR	2 analog outputs wired to back panel with BNC sockets
2 AO BNCF	2 analog outputs wired to front panel 10 U with BNC sockets parallel to input sockets

SIQUAD-DC8 - <sup>1.</sup> - <sup>2.</sup>

<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