

Product Information

SIQUAD DMS4

Characteristics

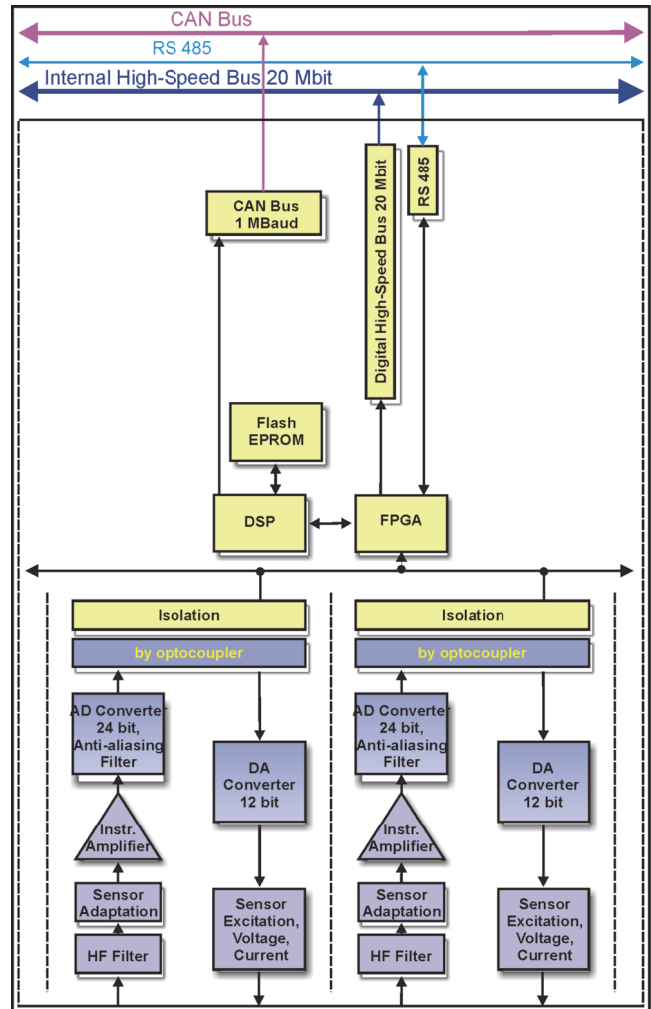
The SIQUAD *DMS4 (Strain Gauge) Amplifier* offers computer-controlled signal conditioning of strain gauge bridges. It has 1 DSP per unit. Signal output is digital via Ethernet and CAN and optional with high precision via analog outputs. Parameter setting is done with the software DaSoft. Signal filtering can be configured from 3..3000 Hz at 20 kS/s sample rate.



Technical Data

General	Channels/unit	4, isolated
	AD converter	24 bit / channel
	Sample rate	20 kHz
	Band width	5 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
	Strain gauge bridges	Range
Accuracy		± 0.03 %
Input impedance		10 MΩ
Differential input		Yes
Sensor supply		0.5, 1, 2.5, 4.1 V (calibrated to 5)
Type of bridge		full bridge, half bridge, (quarter bridge optional), min. 120 Ω

Block Diagram (exemplary for 2 channels)



Dimensions

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

Ordering Code

SIQUAD-DMS4 - 1. - 2. - 3.

1. Terminal	
BB7	7-pole Binder socket (standard)
BB7G	7-pole Binder socket with Gold contacts
LB7	7-pole Lemo socket
2. Option bridge	
1/4 BR	1/4-bridge with 2 resistance values (120, 350 Ω) switchable
3. 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