

SIQUAD FU2

Characteristics

The SIQUAD **Frequency Amplifier** offers computer-controlled signal conditioning of arbitrary periodic frequency signals. Each of the 2 channels has 2 differential tracks with AC coupling and a following 4-step amplifier stage. So signals with amplitudes from 500 mV_{pp} to 100 V_{pp} can be handled. Each channel has an additional digital input.

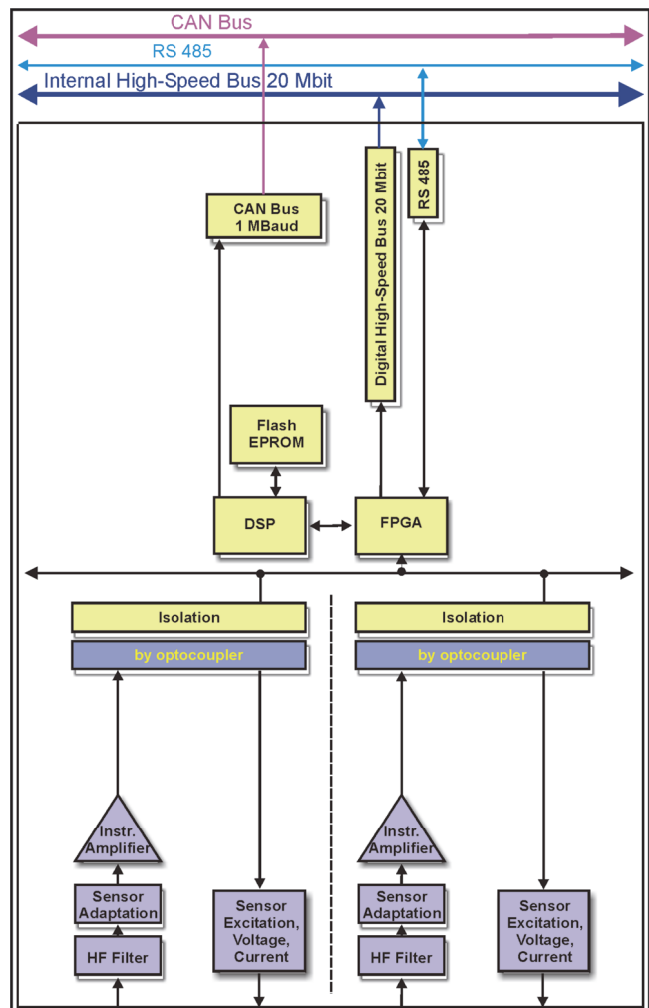


An isolated sensor supply is integrated. There is 1 DSP per unit. Signal output is digital via Ethernet and CAN and optional with high precision via analog outputs. Parameter setting is done with the software DaSoft.

Technical Data

General	Channels/unit	2 with 2 differential tracks each and 1 digital input, isolated
	Sample rate	20 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
	Input impedance	200 kΩ
	min. input frequency	appr. 1 Hz
	Input sensitivity	0.5, 1.0, 2.5, ≥5.0 V _{pp}
	Supply voltage	+5 V / 450 mA
	Environmental temperature	0..+50 °C
FU converter	Sensor supply	unregulated (± 15 %) 2 W (Socket) 1 value: 3.3, 5, 9, 12, 15, 24 V
		regulated (± 5 %) 3 W (soldered) 1 value: 3.3, 5, 12, 15 V
Incremental encoder	Range	5, 10, 20, 50, 100, 200, 500 Hz, 1, 2, 5, 10, 20, 50, 100, 200, 500, 1000 kHz
	resolution	min. 12 bit
	max. dynamics	10 kHz
Incremental encoder	Range	100..10 ⁶ pulses
	resolution	16 bit
	max. counter frequency	1 MHz

Block Diagram



Dimensions

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

Ordering Code

SIQUAD-FU2- 1. - 2.

1. Terminal	
BB7	7-pole Binder socket (standard)
2. Sensor supply	
XG	3.3, 5, 12, 15 V ± 5 %, regulated
XU	3.3, 5, 9, 12 ¹ , 15, 24 V, ± 15 %, unregulated, socket

¹ Standard value, without option 12V unregulated will be shipped