

**Product Information**

**SIQUAD FU2**

**Characteristics**

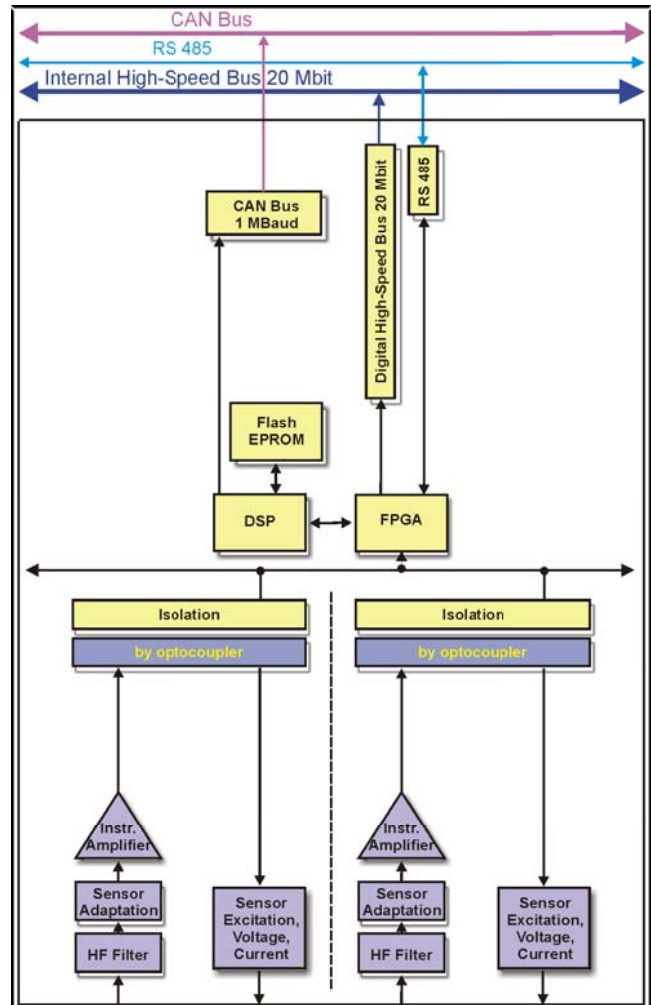
The SIQUAD *Frequency Amplifier* offers computer-controlled signal conditioning of arbitrary periodic frequency signals. Each of the 2 channels has 2 differential tracks with AC coupling and a following 4-step amplifier stage. So signals with amplitudes from 500 mV<sub>pp</sub> to 100 V<sub>pp</sub> 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**

<b>General</b>	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 <sub>pp</sub>
	Supply voltage	+5 V / 450 mA
	Environmental temperature	0..+50 °C
<b>FU converter</b>	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
	Sensor supply	unregulated (± 15 %) 2 W (Socket) 1 value: 3.3, 5, 9, 12, 15, 24 V
<b>Incremental encoder</b>	Range	100..10 <sup>6</sup> pulses
	resolution	16 bit
	max. counter frequency	1 MHz
	Sensor supply	regulated (± 5 %) 3 W (soldered) 1 value: 3.3, 5, 12, 15 V

**Block Diagram**



**Dimensions**

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

**Ordering Code**

SIQUAD-FU2-  1. -  2.

<b>1. Terminal</b>	BB7	7-pole Binder socket (standard)
<b>2. Sensor supply</b>	XG	3.3, 5, 12, 15 V ± 5 %, regulated