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Operating instructions No. 605 E

FT 2000 Speed monitoring system

Frequency generator FTQ 2051

The frequency generator is used for calibrating and functionally testing the different racks of the FT 2000 system as an accurate, digitally adjustable frequency source. The function is realised with the aid of a phased-locked loop (PLL), a quartz stable reference frequency and a voltage controlled oscillator (VCO).

Dimensions: 19" rack mounting module, Europa card size
Height: 3 units = 132.5 mm
Width: 12 units = 60.96 mm

Output signal: Square-wave pulse with an amplitude of at least +10 Vs; the negative pole of the supply voltage forms the reference potential. Output impedance 200 ohm.

Output frequency precision: ± 100 ppm ± 50 ppm/deg.K

Frequency adjustment: The desired frequency range is set via a rotary control on the front panel. Precise frequency seting is via the 4-digit decade switch. The highest value decade should not be set to zero on account of the restricted control range of the VCO.

LED display: The green LED flashes at the rhythm of the output frequency. The yellow LED above the 4-digit decade switch lights whilst the output frequency has **not** yet stabilised at the set frequency.

Mains supply switch: For switching the frequency generator on and off. If the output signal is connected to the test frequency input of a sensor monitoring unit FTU 2041, the frequency generator must be switched off in normal operating mode or a false sensor frequency will be simulated.

Auxiliary power: nominal 24 V DC (18...33 V) from the rack supplies. Power consumption max. 1.8 W.

Ambient temperature: 0...+60°C, +70°C for a max. of 2 hours.

Storage temperature: -20...+85°C

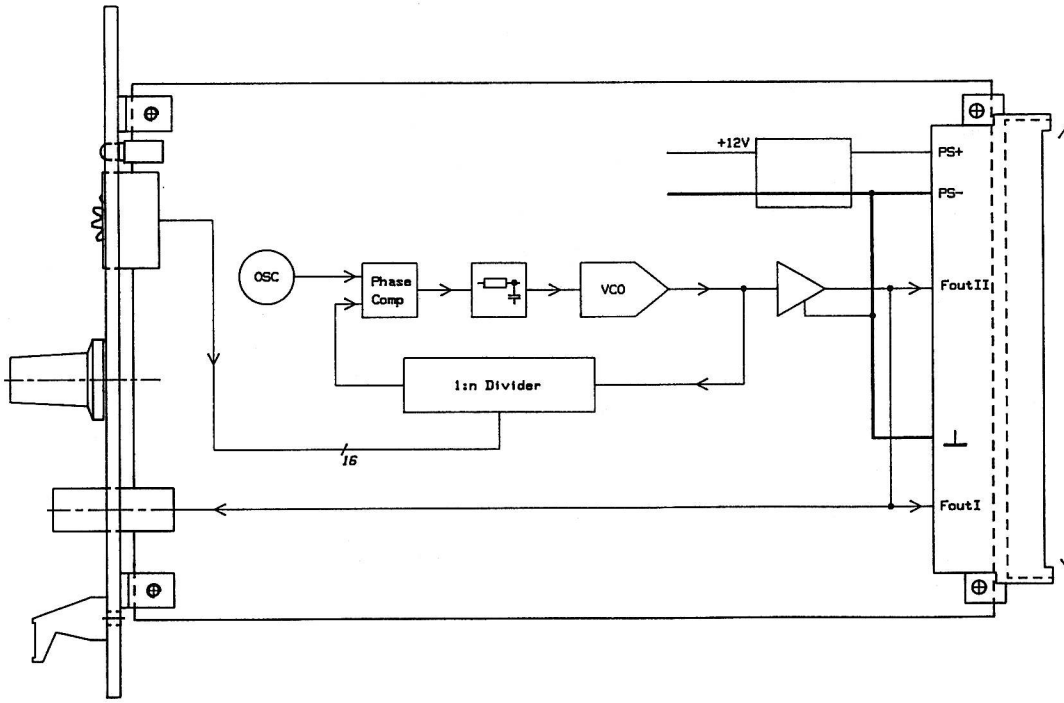
Nov. 1992

FT 2000

Anschlussschema
Connection diagram
Schéma de raccordement

FTQ 2051

Frequenzgenerator
Frequency Generator
Générateur de fréquence



d	z		
PS+		2	Hilfsenergie Pluspol (+) / Power supply plus terminal (+) / Alimentation pôle positif (+)
PS-		4	Hilfsenergie Minuspol (-) / Power supply minus terminal (-) / Alimentation pôle négatif (-)
PE		6	Schutzleiter / Protectiv Earth / Conducteur de protection
		8	
		10	
PE		12	Schutzleiter / Protectiv Earth / Conducteur de protection
FoutII		14	d — z Frequenzausgang II / Frequency output II / Sortie de fréquence II
	⊥	16	d — z ⊥
		18	d — z ⊥
		20	d — z ⊥
		22	d — z ⊥
		24	⊥
FoutI		26	d Frequenzausgang I / Frequency output I / Sortie de fréquence I z ⊥
		28	
		30	
		32	

Massbild
Dimensions
Côtés
3-110.544/8

Aenderungen:

Sach-Nr. 373

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