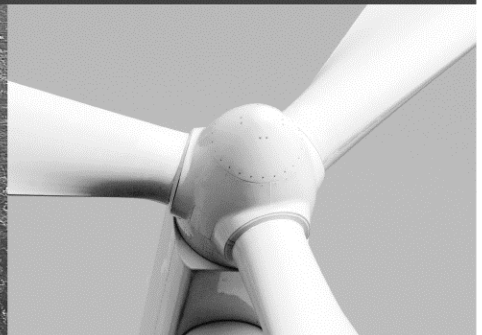
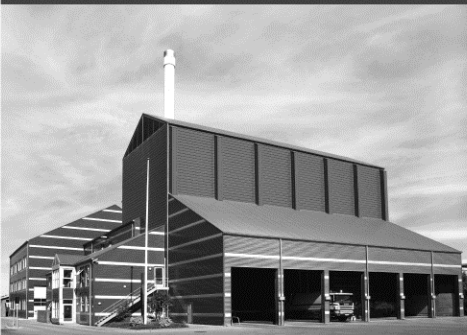




-power in control



DATA SHEET



Double frequency meters and double voltmeters, types 2FQ, 2FTQ, 2EVQ, 2EQ

- Robust and thoroughly tested construction
- DIN size design
- High accuracy
- High immunity to 3rd harmonics



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Available types

Type	Double frequency meters		Double voltmeters	
	Pointer frequency	Reed frequency	Double scale	Joint scale
96 x 96 mm	2FQ96-x	2FTQ96-x	2EVQ96-x	2EQ96/2

Construction

2FQ Double pointer frequency meter, consisting of two moving coil instruments mounted diagonally in one housing. A compact instrument with accurate and linear read-out.

2FTQ Double reed frequency meter with two rows of reeds mounted in one housing. Exchangeable scale.

2EVQ Double voltmeter consisting of two moving iron systems mounted diagonally in one housing.

2EQ Double voltmeter consisting of two mutually independent moving iron systems with a joint scale. Point of rotation of pointer for both systems at lower right corner.

Technical specifications

Type	2FQ	2FTQ	2EVQ ³⁾	2EQ ⁴⁾
Accuracy ¹⁾	Class 0.5		Class 1.5	
Scale/meas. range	45...55/55...65/45...65 Hz 360...440 Hz (others on request)	45..55/57..63/55..65 Hz	0...150/300/ 500/600/700 V	0...150/250/ 500/ 600 V
Measuring voltage/ frequency	100...230V AC ±15% 400...440V AC ±15%	100-110-220-230-240-380- 400-415-440V AC ±15%	Frequency: 15...100 Hz	
Consumption	3...9 mA	10...15 mA	1.5...4 VA	5 VA
Temperature	-10...55°C (nominal) -25...60°C (operating) -25...65°C (storage)			
Shock test	15 g – 6 times – 3 directions, 50 g/6 ms, 22 g/20 ms			15 g – 6 times – 3 directions
EMC	To IEC/EN 61000-6-2/3 CE-marked for residential, commercial and light industry plus industrial environment			
Protection to IEC/EN 60529	IP52	IP52 ²⁾	IP52	IP52

¹⁾ (-10...15...30...55°C) to IEC/EN 60051-1

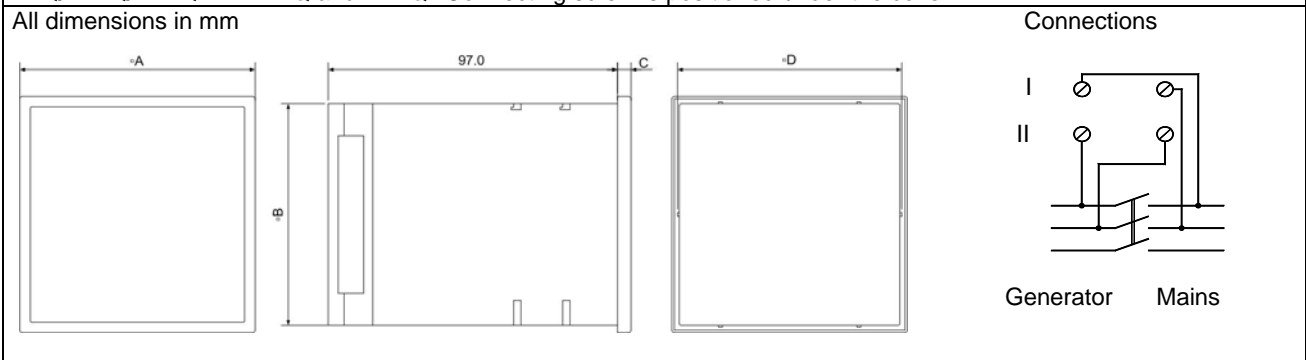
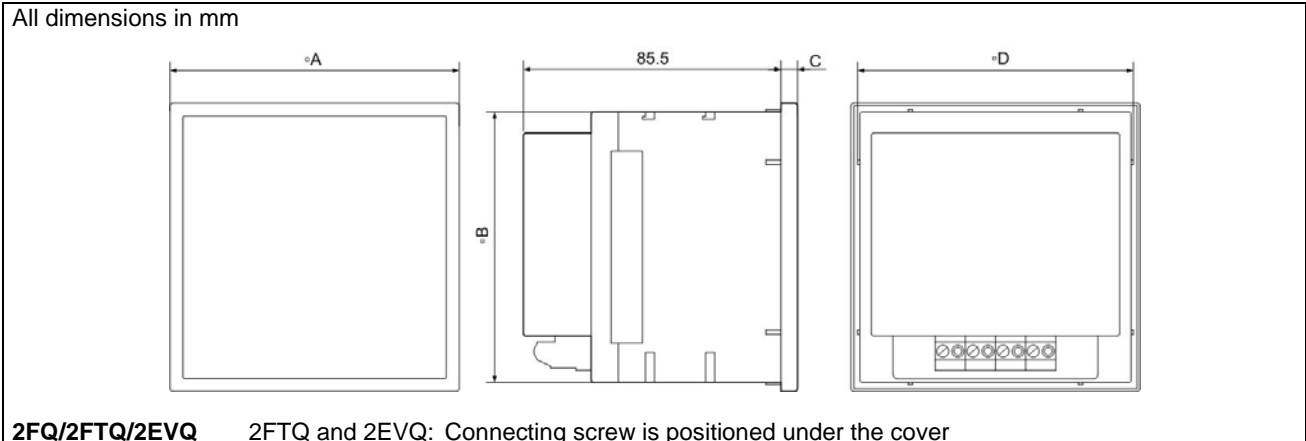
²⁾ IP54 from front on request

³⁾ Cat. III 600 V

⁴⁾ Cat. III 300 V

Further technical specifications: See data sheet no. 4921210012.

Dimensions



Type	A (mm)	B (mm)	C (mm)	D (mm)	Depth behind panel	Weight (approx. kg)
2FQ96-x	96 x 96	90 x 90	5.5	92 x 92 +0.8	85.5 mm	0.310
2EQ96/2	96 x 96	91 x 91	5.5	92 x 92 +0.8	97.0 mm	0.400
2FTQ96-x/2EVQ96-x	96 x 96	90 x 90	5.5	92 x 92 +0.8	63.0 mm	0.440/0.260

Available variants

Item no.	Variant no.	Variant description
2918410920	01	2FQ96-x All frequency ranges and supply voltage incl. standard scale
2918460920	01	2FTQ96-x 45...55 Hz, 55...65 Hz. (21 reeds) and all supply voltages incl. standard scale
2918460920	02	2FTQ96-x 47...53 Hz, 57...63 Hz. (13 reeds) and all supply voltages incl. standard scale
2918510920	01	2EVQ96 Standard measuring input and standard scale
2918510920	02	2EVQ96 For voltage transformer or non-standard measuring input incl. customised scale
2918560020	01	2EQ96 Standard measuring input and standard scale
2918560020	02	2EQ96 For voltage transformer or non-standard measuring input incl. customised scale

Order specifications

Variants:

Mandatory information					Additional options to the variant		
Item no.	Type	Variant no.	Scale/measuring range	Measuring voltage	Option	Option	Option

Example:

Mandatory information					Additional options to the variant		
Item no.	Type	Variant no.	Scale/measuring range	Measuring voltage	Option	Option	Option
2918410920-01	2FQ96-x	01	2 x 45...55 Hz	230V AC	Anti glare glass		
2918460920-01	2FTQ96	01	2 x 55...65 Hz	380V AC	Anti glare glass	IP54	
2918510920-01	2EVQ96	01	2 x 0...500V AC	0...500V AC	Red line at 440 V		
2918560020-02	2EQ96	02	2 x 0...15 kV	12 kV/110V AC	Red line at 440 V	Anti glare glass	

Note: When ordering a 2EVQ/2EQ meter for connection via a voltage transformer (VT), both primary and secondary of the VT must be stated as shown above.

Due to our continuous development we reserve the right to supply equipment which may vary from the described.



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