

DATA SHEET

FQ, FTQ

Single frequency meters



DEIF

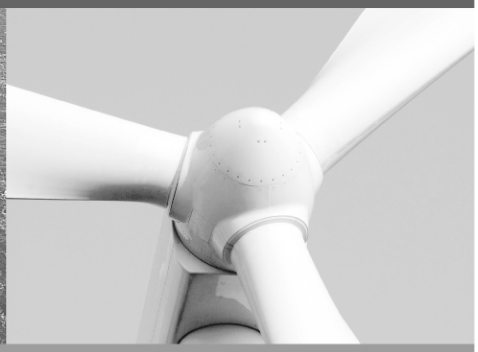
-power in control

CE

DATA SHEET







Single frequency meters,

types FQ, FTQ

- Robust and thoroughly tested construction
- DIN size compact design: Q72, Q96
- High immunity to 3rd harmonics
- Suitable for all types of generating sets

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Available types

Size	Pointer frequency meters (90º)	Reed frequency meters
72 x 72 mm	FQ72-x	-
96 x 96 mm	FQ96-x	FTQ96-x

Construction

FQ:
Pointer frequency meter consisting of a moving coil instrument with built-in electronics for converting the frequency to a voltage signal. Accurate and linear read-out. Exchangeable scale.

FTQ:
Reed frequency meter with one row of metal reeds vibrating at the applied frequency (resolution: 1/4 Hz). Available with 21 reeds (typically 45...55 Hz).
Exchangeable scale.

Technical specifications

Type: Pointer frequency meters FQ

Accuracy[1]:	Class 0.5
Scale/measuring range:	45...55 Hz 55...65 Hz 45...65 Hz 360…440 Hz (others on request)
Measuring voltage:	100…230V AC ±15% 400…440V AC ±15%
Consumption:	Up to 2 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
EMC:	IEC/EN 61000-6-2/3 CE-marked for residential, commercial and light industry plus industrial environment
Protection:	IP52[2] To IEC/EN 60529

Type: Reed frequency meters FTQ

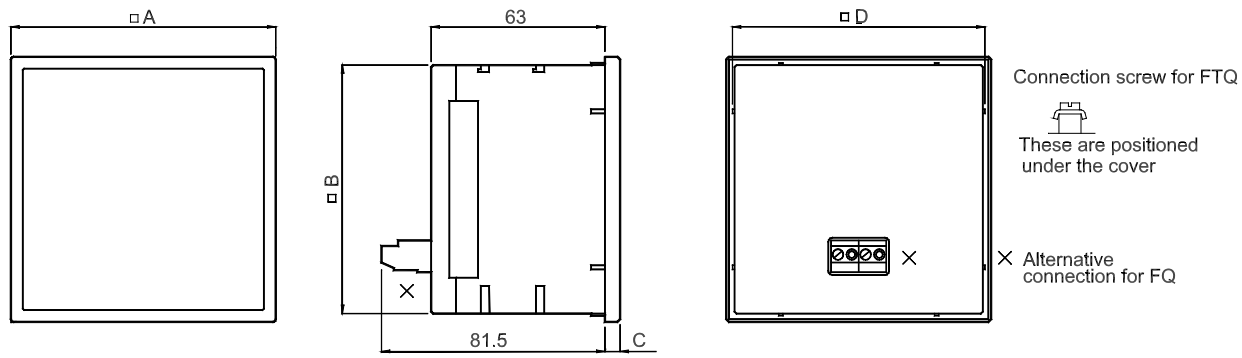
Accuracy[1]:	Class 0.5
Scale/measuring range:	45...55 Hz - 55...65 Hz
Measuring voltage:	100-110-220-230-240-380-400-415-440V AC ±15%
Consumption:	Up to 2 VA
Temperature:	-10...55°C (nominal) -25...60°C (operating) -25...65°C (storage)
EMC:	IEC/EN 61000-6-2/3 CE-marked for residential, commercial and light industry plus industrial environment
Protection:	IP52[2] To IEC/EN 60529

[1] -10...15...30...55°C, to IEC/EN 60051-1
[2] IP54 from front on request

Further technical specifications:
See data sheet no. 4921210012

Dimensions

All dimensions in mm



Type	A	B	C	D	Weight (approx. kg)
FQ72-x	72 x 72	66.5 x 66.5	5.5	68 x 68 + 0.7	0.189
FQ96-x	96 x 96	90 x 90	5.5	92 x 92 + 0.8	0.240
FTQ96-x	96 x 96	90 x 90	5.5	92 x 92 + 0.8	0.280

Available variants

Item no.	Variant no.	Variant description
2961410720	01	FQ72-x All frequency ranges and supply voltage incl. standard scale
2961410920	01	FQ96-x All frequency ranges and supply voltage incl. standard scale
2961460920	01	FTQ96-x 45...55 Hz, 55...65 Hz. All supply voltages incl. standard scale

Order specifications

Variants:

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

Example:

Mandatory information					Additional options to the standard variant	
Item no.	Type	Variant no.	Scale/measuring range	Measuring voltage	Option	Option
2961410920-01	FQ96-x	01	45…55 Hz	230V AC	IP54	

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