



-power in control

# DEIF A/S

# Type Certificate

4124010016D

Type:	FQ72-x, FQ96-x, FQ144-x, Pointer frequency meters for flush mounting
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Technical specifications	
* Scale/measuring range:	45...55Hz, 5...65Hz, 45...65Hz
* Measuring voltage	100-110-220-230-240-380-400-415-440V AC ±15%
Consumption:	3...6mA
Housing, Dimension & outlines:	To DIN 43700 and DIN 43718
* Accuracy	Range 45...55Hz:           Class 0.5       IEC/EN 60688 Range 55...65Hz           Class 0.5 Range 45...65Hz           Class 1.0 (-10...15...30...55°C)

Type test specifications	Tested according to:	
Insulation:	500V DC, > 100 MΩ	GL, DNV and LRS
Vibration:	3...5.3Hz:       50mm/sec 5.3...13.2Hz:   3mm 13.2-100Hz:    1g	Test 1, GL and LR DNV: Class A
Shock:	6 attempts with 15 g (in 3 directions) 50g/6ms 22g/20ms	IEC 60068-2-27, Test: EA
Climate:	Class HUE	IEC 60068-2-30, test Db
Protection:	Case:           IP52 (IP54) Terminals:    IP20	IEC/EN 60529
Temperature:	-10...55°C (nominal) -25...60°C (operating) -25...65°C (storage)	IEC/EN 60051
Safety:	600V – CAT III pollution deg. 2	IEC/EN 61010-1
EMC:	Immunity / Emission	IEC/EN 61000-6-1/2/3/4 IEC 60255-4 (Class 3)

\*) Tested on all units according to specifications. Remaining specifications are tested regularly by test sampling

30 August 2012

DEIF A/S

Keld Roed  
Type Test Manager



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