



- power in control

# DEIF A/S

## Type Certificate

4124010036B / ref. JCL

Type: kWh meters WQR96 MKII, WQ2R96 MKII, WQR96-x MKII, WQR96-c MKII

### Technical specifications

* Auxiliary supply	60, 100, 230, 400 V AC $\pm$ 20%
Rated frequency	45 to 65 Hz
* Measuring Voltage:	Ph-N 400V AC, Ph-Ph 690V AC, range $\pm$ 20% Consumption < 0,1VA / phase
* Measuring. Current:	Current transformer -/1A or -/5A, range 0 to 1,6 x I <sub>n</sub> Consumption: < 0,1VA.
Measuring frequency:	50/60Hz, range 16 to 400Hz
Overloads      currents	3 x I <sub>n</sub> , Continuously, 25 x I <sub>n</sub> , for 3 s 50 x I <sub>n</sub> , for 1 s
voltages	1,5 x U <sub>n</sub> , Continuously 2 x U <sub>n</sub> for 10 s
Accuracy	Energy: Active energy EN 62053-21: Class 1. Reactive energy EN 62053-23: Class 2 Power: 1.5% of scale at nominal temperature range 10 to 30°C Outside this range, 3% of scale
Relay outputs:	Max. 250 V (AC), max. 100 V (DC)
Contact rating:	AC: 250V – 6A – 1500VA (250VAC – 6A resistive AC load 100,000 operations) DC: 35V – 6A – 210W (30VDC – 6A resistive load 500,000 operations) Pulse duration: 100mS No. of outputs: 2

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## Type test specifications

## Tested according to:

Temperature:	-10....55°C (operating) -25....70°C (storage)	IEC/EN 62052-11
Climate:	Relative humidity $\leq$ 75%	IEC/EN 62052-11
Vibration:	3...13.2Hz: 2mm <sub>pp</sub> 13.2...100Hz: 0.7g	IEC/EN 60068-2-6 & IACS UR E10
Shock:	50g, 11msec. half sine  Tested with 3 impacts in each direction in all 3 axes. Total 18 impacts per test.	IEC/EN 60068-2-27, test Ea
Safety:	Installation Cat.III 600V v/cat. II 300V Pollution degree 2 Tested to 2210V	IEC/EN 61010-1 Tested at 50Hz, 1 min. Each galvanic group tested to other galvanic groups and to protection earth.
EMC:		IEC/EN 62052-11 IEC 60533 power distr. zone IACS UR E10 power distr. zone
Materials:	All plastic parts are self-extinguishing to UL94 (V0)	
Protection:	Unit: IP20 Front: IP52 (IP54 with gasket-option L)	IEC/EN 60529

\*) Routine tested on all units according to specifications.

Remaining specifications are tested regularly by test sampling.

22<sup>nd</sup> September 2015

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