

DEIF A/S

Type Certificate

4124030069C / ref. JCL

Type:	Multi-transducer MTR-3, MTR-4
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Technical specifications

* Measuring Voltage:	62,5 to 600V AC phase to zero 108 to 1000V AC phase to phase
Voltage overload	2 x U _n ; 10s
* Measuring. Current:	Nominal range values: 1,5, 10A 5A AC Consumption < I ² x 0,01Ω per phase
Current overload:	Max. allowed value (thermal) 15A cont. 20 x I _n ; 5 x 1s
* Measuring frequency:	16...400Hz
* Auxiliary supply	24 – 300V DC, 40 – 276V AC Frequency 45...65Hz Consumption < 8VA
* Analogue output:	Range 1: -1...0...1mA. Range 2: -5...0...5mA. Range 3: -10...0...10mA. Range 4: -20...0...20mA Range 5: -1...0...1V. Range 6: -10...0...10V.
* Galvanic separation:	500V ACrms between outputs 3320V ACrms between inputs and outputs 3320V ACrms between inputs and aux. supply 3320V ACrms between aux. supply and outputs
Accuracy:	
* Voltage Rms P-N and P-P	0,3% of range
Power factor	0,2° of range
* Frequency	10mHz of range
* Current Rms	0,3% of range
* Power (P,Q,S)	0,5% of range
P-N and P-P angle	0,2% of range
Active energy	Class 1
Reactive energy	Class 2

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Type test specifications		Tested according to:
Temperature:	Usage group III -10...0...45...55°C -30...70°C (operating) -40...70°C (storage)	IEC 60068-2-1 IEC 60068-2-2
Climate:	97% RH (93% from data sheet)	IEC 60068-2-30, test Db
Vibration:	3...13.2Hz: 2mm _{pp} 13.2...100Hz: 0.7g 3...13.2Hz: 6mm _{pp} 13.2...50Hz: 2.1g	IEC 60068-2-6 & IACS UR E10 DNV (Class C)
Shock:	Base mounted 50g, 11msec. half sine Tested with 3 impacts in each direction in all 3 axes. Total 18 impacts per test.	IEC 60068-2-27, test Ea
Safety:	Installation Cat.III 300V Pollution degree 2	EN 61010-1 tested at 50Hz, 1 min Each galvanic group tested to other Galvanic groups and to protection Eath.
EMC:		EN 61000-6-2/4
Materials:	All plastic parts are self-extinguishing to UL94 (V0)	
Protection:	Unit: IP40 Terminals: IP20	IEC/EN 60529

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

6th July 2016

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Søren Madsen

Product Approval Manager