

## Type Approval Certificate

*This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the LR Type Approval System.*

This certificate is issued to:

<b>PRODUCER</b>	ELEQ Steenwijk B.V.
<b>PLACE OF PRODUCTION</b>	Tukseweg 130 8331 LH STEENWIJK The Netherlands
<b>DESCRIPTION</b>	Measuring Transducers for Measuring Voltage, Current, Frequency, Active Power, Apparent Power, Reactive Power, Power Factor, Phase Angle in single or multi element systems.
<b>TYPE</b>	EM800-I Current measurement EM800-U Voltage measurement EM800-F Frequency measurement EM800-DC DC voltage or DC current measurement EM800-W Active power measurement EM800-S Apparent power measurement EM800-Q Reactive power measurement EM800-C Power Factor measurement EM800-Y Phase angle measurement
<b>APPLICATION</b>	Marine, Offshore and Industrial applications for use in environmental categories ENV1, ENV2, ENV3 and ENV4 as defined in LR Test Specification No. 1-2002
<b>STANDARD</b>	IEC 60688 IEC 61010 DIN 43780 DIN 40050
<b>Certificate No.</b>	05/30004
<b>Issue Date</b>	17 January 2005
<b>Expiry Date</b>	16 January 2010
<b>Sheet</b>	1 of 2



H.L. Reekers

Type Approval Department  
Lloyd's Register EMEA/Rotterdam Office

Lloyd's Register EMEA  
P.O. Box 701, 3000 AS Rotterdam

**RATINGS** CLASS 0.5 Measuring transducer  
Input:  
58 V to 440 V  
1A or 5A  
16 2/3 Hz to 400 Hz  
Output:  
0 – 20 mA DC  
0 – 10 V DC

**ADDITIONAL TEST** Shocktest according IEC 60028-2-27 at 30 g 18 ms

*"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."*

*The Design Appraisal Document No. ROT.TA.0490327 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

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