

# TYPE APPROVAL CERTIFICATE

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

Certificate No.	<b>26 529 - 05 HH</b>
Company	<b>DEIF A/S</b> <b>Frisenborgvej 33</b> <b>7800 Skive, DENMARK</b>
Product Description	<b>Insulation Monitor</b>
Type	<b>DIM-Q, SIM-Q, SIM-Q LF</b>
Environmental Category	<b>C; EMC2</b>
Technical Data / Range of Application	<b>Working Voltage up to 690 V AC withstands up to 1000 V DC</b> <b>Measuring Circuit</b> <b>DC resistance 300 kΩ +/- 1%/ AC impedance 251 kΩ +/- 1% at 50 Hz</b> <b>Measuring Voltage +/- 28 V DC +/- 5%</b> <b>Instrument</b> <b>Measuring range :</b> 1..0 MΩ or 10..0 MΩ <b>Frequency working range:</b> SIM-Q: 20...500Hz; SIM-Q LF: 5... 500Hz <b>Accuracy :</b> +/- 5 % full scale (1MΩ) / +/- 2 % full scale (10 MΩ) <b>Temperature drift :</b> Max 0.5 % of scale length per 10° <b>Aux. Supply influence :</b> Max 0.2 % of scale length at Us +20... - 15 % Max 5.0 % of scale centre at Us -15... - 20 % <b>Add. Feature SIM-Q:</b> Mode-switch for Monitoring/ Fault finding/ Test <b>Auxiliary voltage :</b> 110 V AC/ 230 V AC/ 450 V AC/ 24V DC (SIM-Q only)
Test Standard	<b>GL Guidelines for the Performance of Type Approvals, Chapter 2 - Test Requirements for Electrical / Electronic Equipment and Systems (VI-7-2), Edition 2003</b>
Documents	<b>Test report : EPA0179 dated 30-12-2004</b> <b>Data Sheet : 4921230018B, CD : DIM-Q, CD: SIM-Q,</b> <b>Add. Test for SIM-Q :DEIF Test report 02A, Test reports summary IPA No.249, IPA, No. 249-01; EPC0332</b>
Remarks	<b>This certificate is issued on the basis of GL Guidelines for the Performance of Type Approvals, Chapter 1 - Procedure (VI-7-1), Edition 2007.</b>

Valid until **2019-09-30**

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File No. **I.J.04**

**Hamburg, 2014-10-01**

Type Approval Symbol

