



Certificate no.:
TAA00003G9

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Peripheral Equipment

with type designation(s)
Insulation monitor RN5897; Coupling device RL5898 & RP5898

issued to

E. Dold & Söhne GmbH & Co. KG
Furtwangen im Schwarzwald, Baden-Württemberg, Germany

is found to comply with

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Location classes:

Temperature	B
Humidity	B
Vibration	A
EMC	A
Enclosure	A

Issued at **Hamburg** on **2025-03-03**

This Certificate is valid until **2030-03-02**.

for **DNV**

DNV local unit: **Augsburg**

Approval Engineer: **Heinz Scheffler**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

Insulation monitor RN 5897 .## / ## ### / ## ##### #####
I II III IV V VI VII VIII IX

I Housing:

RN Overall dimensions 52,5 x 90 x 71mm

II Type:

5897 Insulation monitor

III Contact version:

11 One CO contact
12 Two CO Contact

IV Suffix for client specification:

Identical variant that is only characterized by different housing colour or factory presetting

V Variant:

XXX

- 0 - with display
- 2 - without display, with selective earth fault detection, relay output 1 = alarm, relay output 2 = device-error
- 3 - without display, with selective earth fault detection, relay output 1 = alarm, relay output 2 = pre-alarm
- 4 - without display, with selective earth fault detection, relay output 1 = error at DC+, Relay output 2 = error at DC-

XXX

- 0 - without connection facility to RL5898 or RP5898, without trigger output, fast reaction time, without stop function
- 1 - with connection facility to RL/RP 5898, with trigger output, slow reaction time, without stop function
- 2 - with connection facility to RL/RP 5898, with trigger output, fast reaction time, with stop function
- 3 - with connection facility to RL/RP 5898, with trigger output, fast reaction time, with stop function
- 4 - with connection facility to RL/RP 5898, with PWM output for signalling insulation resistance, fast reaction time, with stop function
- 5 - with connection facility to RL/RP 5898, with semiconductor output for signalling test-mode, fast reaction time, with stop function
- 6 - with connection facility to RL/RP 5898, with trigger output, slow reaction time, with stop function
- 7 - with connection facility to RL/RP 5898, with PWM output for signalling insulation resistance, fast reaction time, with stop function, maximized leakage capacitances

XXX

- 0 - without Modbus, measuring voltage $\pm 90V$
- 1 - with Modbus, measuring voltage $\pm 90V$
- 2 - without Modbus, measuring voltage $\pm 45V$
- 3 - with Modbus, measuring voltage $\pm 45V$
- 4 - without Modbus, measuring voltage $\pm 90V$

VI Certification:

61 UL-listed

VII Power supply

DC12-24V
AC/DC24-60V
AC/DC85-230V
AC/DC100-230V

VIII Alarm setting

Xk - Yk selectable with max. 10 values out of range 1k Ω - 2M Ω
AXk - AYk adjustable, within a range X - Y out of range 1k Ω - 2M Ω
Xk fixed value out of range 1k Ω - 2M Ω

IX Pre-alarm setting

„blank“ without pre-alarm Pre-Alarm
Xk - Yk selectable with max. 10 values out of range 1k Ω - 2M Ω
AXk - Ayk adjustable, within a range X - Y out of range 1k Ω - 2M Ω
Xk fixed value out of range 1k Ω - 2M Ω

RL5898, RP5898

Coupling devices R# 5898 / ## / ##
I II III IV

I Housing:

RL overall dimensions 35 x 90 x 71mm
RP overall dimensions 70 x 90 x 71mm

II Type:

5898 coupling device for insulation monitor RN5897

III Suffix for client specification:

Identical variant that is only characterized by different housing colour or factory presetting

IV Certification:

61 UL-listed

Application/Limitation

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case.

Reference is made to DNV Rules for Ships Pt.4 Ch.9 Control and Monitoring Systems.

Type Approval documentation

Documents & Test Reports: Documentation Tests DNV-approval RN5897, RL(RP5898 Revision_V4)-DNV stamped;

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021
IEC/EN 61557-8:2015

Marking of product

The products to be marked with:

- Model name
- Manufacturer name
- Serial number
- Supply voltage

Periodical assessment

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE