

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Electrical Indicators**

with type designation(s)

5714 / 5715 / 5725 Programmable LED Indicator

Issued to

**PR electronics A/S
Rønde, Denmark**

is found to comply with

DNV GL rules for classification – Ships, offshore units, and high speed and light craft**Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Location classes:**

Temperature	D
Humidity	B
Vibration	A
EMC	B
Enclosure	B*

*** Tested to IP 65, panel front only**This Certificate is valid until **2021-12-31**.Issued at **Høvik** on **2017-01-10**DNV GL local station: **Aalborg**Approval Engineer: **Ståle Sneen**for **DNV GL**

**Odd Magne Nesvåg
Head of Section**

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.

Product description

5714 / 5715 / 5725 Programmable LED Indicator for digital indication of analog and digital process parameters.

- 5714 includes 2 comparator (setpoint) relay outputs and analog current output signal
- 5715 includes 4 comparator (setpoint) relay outputs and analog current output signal
- 5725 includes digital input, 2 comparator (setpoint) relay outputs and analog current output signal

Place of manufacture

PR electronics A/S
Rønne, Denmark

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, 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 GL rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

Type Approval documentation

- Ring binder 5714 DNV 2004, containing:
 1. Data sheet
 2. Manual
 3. Drawings/ Schematic diagrams
 4. Part List
 5. PCB Layout, Component Location, PCB Spec.
 6. Test Setup
 7. Test report
 8. Labels
 9. Application for Type Approval
 10. Certificates
 11. Revision Reports
- Instruction pamphlet 5714 /5715
- Test record of 5714 / 5715 dated 2004-07-09
- Vibration test report: Delta E 502021 dated 2004-05-12
- Vibration test report: Delta A 503522 dated 2006-01-11

Renewal/extension 2010:

- Instruction pamphlet 5725
- 5725 Acceptance Test Report, Version Revision: V1R0 dated 2011-01-27

Type approval periodical assessment report for A-14058, DNV GL Aalborg dated 2016-12-20

Tests carried out

Applicable tests according to Standard for Certification No. 2.4, April 2006.

Marking of product

The products to be marked with:

- manufacturer name
- model name
- serial number
- power supply ratings

Job Id: **262.1-000946-8**
Certificate No: **TAA0000102**

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