



DET NORSKE VERITAS

TYPE APPROVAL CERTIFICATE

CERTIFICATE NO. A-9227

This Certificate consists of 3 pages

This is to certify that the
Electrical Indicators

with type designation
5714 Programmable LED indicator

Manufactured by
PR electronics A/S
Rønde, Denmark

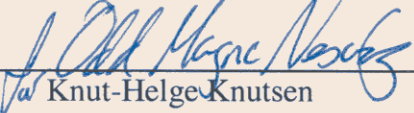
is found to comply with
Det Norske Veritas' Rules for Classification of Ships, High Speed & Light Craft and Det Norske Veritas' Offshore Standards

Application

Temperature	D
Humidity	B
Vibration	A
EMC	B
Enclosure	B*

* Tested to IP 65, panel front only

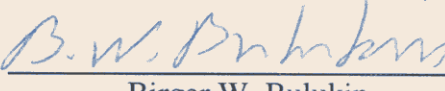
Place and date
Høvik, 2004-07-22
for DET NORSKE VERITAS AS


Knut-Helge Knutsen
Head of Section



Local Office
DNV Aalborg

This Certificate is valid until
2006-12-31


Birger W. Bulukin
Surveyor

Notice: 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.

If any person suffers loss or damage which is proved to have been caused by any negligent act or omission of Det Norske Veritas, then Det Norske Veritas shall pay compensation to such person for his proved direct loss or damage. However, the compensation shall not exceed an amount equal to ten times the fee charged for the service in question, provided that the maximum compensation shall never exceed USD 2 million. In this provision "Det Norske Veritas" shall mean the Foundation Det Norske Veritas as well as all its subsidiaries, directors, officers, employees, agents and any other acting on behalf of Det Norske Veritas.



Cert. No.: A-9227
File No.: 893.70

Holder of certificate

PR electronics A/S
Rønde, Denmark

Product description

5714 Programmable LED Indicator for digital indication of analog process parameters.
Includes 2 comparator (set point) relay outputs and analog current output signal.

Approval conditions

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, by inclusion in an instrument list. Reference is made to DNV Rules for Ships / MOU Pt.4 Ch.9 Instrumentation and Automation.

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

- Test record of 5714

dated 04-07-09

- Vibration test report: Delta E 502021

dated 04-05-12

Tests carried out

Applicable tests acc. to S.f.C.2.4



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Certificate retention survey

The scope of the retention/renewal survey 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 survey 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.

Survey to be performed at renewal of this certificate.

END OF CERTIFICATE