

# Type Approval Certificate



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

Certificate No.	19 142 - 11 HH
Company	PR electronics A/S Lerbakken 10 8410 Roende, Denmark
Product Description	3000 Series Isolators / Converters
Type	3101, 3102, 3103, 3104, 3105, 3108, 3109, 3111, 3112, 3113, 3114, 3117, 3118, 3331, 3333, 3337, 3405, 3185 A1/A2, 3186 A1/A2,
Environmental Category	D, EMC1
Technical Data / Range of Application	Isolated converters: 3103 Isolated repeater 3104 Isolated converter 3105 Isolated converter 3108 Isolated repeater (splitter) 3109 Isolated converter (splitter) 3114 Isolated universal converter 3117 Bipolar isolated converter 3118 Bipolar isolated converter(splitter) 3185 A1/A2 1ch/ 2ch loop-powered isolator 3186 A1/A2 1ch/ 2ch 2-Wire Transmitter Isolator
Test Standard	Guidelines for the Performance of Type Approvals Chapter 2, Edition 2012
Documents	see page 2
Remarks	None

Valid until 2018-09-03  
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File No. I.A.03  
**Hamburg, 2013-09-04**

Type Approval Symbol



**Germanischer Lloyd**

  
Marco Rinkel

  
Didier Girardin



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## TC/PT100 converter

- 3101 TC converter
- 3102 Pt100 converter
- 3111 TC isolated converter
- 3112 Pt100 isolated converter
- 3113 PT100/TC converter / HART interface or dipswitch setup
- 3337 PT100/TC converter / HART interface or dipswitch setup
- 3331 PT100/TC isolated converter / dipswitch setup
- 3333 PT100 converter / dipswitch setup

## Documents:

- |                     |                                     |
|---------------------|-------------------------------------|
| 3109/3114 Damp Heat | V2R0, Dated 2011-01-14              |
| 3109 Accept. Test   | V10R0, Dated 2011-01-20             |
| 3109 Integr. Test   | V9R0, Dated 2010-08-31              |
| 3109 Routine Test   | V6R0, Dated 2010-09-01              |
| 3114 Accept. Test   | V3R0, Dated 2011-01-20              |
| 3114 Routine Test   | V2R0 (2010-10-22), Dated 2010-10-22 |
| 3114 Integr. Test   | V2R0 (2010-09-17), Dated 2010-09-17 |
| Vib.Test            | DANAK-1911132,                      |
| Vib.Test            | DANAK-1911455,                      |
| 3109/3114           | Marine Test Report V3R0,            |
| Data Sheets         | S-TR040/041/042/043-UL-01,          |
| 3185/86 acc. test   | V3R0/V2R0 dated 2012-01-13          |
| 3118 acc. test      | V2R0 (2012-07-06)                   |
| 3112                | Marine Test Report V2R0             |

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This certificate is issued on the basis of "Guidelines for the Performance of Type Approvals Part 1, Procedure".