



# *Polski Rejestr Statków*

## **TYPE APPROVAL CERTIFICATE**

This is to certify that the undernoted product type

### **DISTRIBUTED INPUT / OUTPUT UNITS**

**ET 200iSP**

manufactured by

**Siemens AG, IIA AS  
Werner-von-Siemens-Strasse 50  
D-92224 Amberg  
Germany**

is approved as complying with the requirements of the

PRS Rules and is suitable for use on board of ships classified by PRS or in appliances with PRS certificates.

Certificate No. TE/1902/883241/11

Expiry date 2016-08-26

Issued at

Gdańsk, 2011-08-26



Signature

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Continued overleaf

List of components as specified in Appendix to the certificate.

Basis of approval

1. SIEMENS Catalog CA 01 10/2005.
2. Test report No. A&D AS RD 423-0301, A&D AS RD ST Type Test-01/05, A&D AS RD ST Type Test-10/2006.
3. Inspection of the production process and quality control system carried out in June 2011.
4. Quality System Certificate No. 001323 QM issued by DQS GmbH Deutsche Gesellschaft zur Zertifizierung von Managementsystemen.

Additional conditions and remarks:

1. For use in hazardous locations of Zone 1, the system is to be installed in a metallic enclosure certified for Ex e (increased safety). For use in hazardous of Zone 2, the system is to be installed in a metallic enclosure with a minimum degree of protection of IP54 (EN 50021). For use in hazardous locations of Zone 21, the system is to be installed in a metallic, dust proof enclosure with a minimum degree of protection of IP6x (94/9/EC for category 2D). For use in hazardous locations of Zone 22, the system is to be installed in a metallic, dust proof enclosure with a minimum degree of protection of IP5x (94/9/EC for category 2D). Certified enclosure (6DL2804-...) as specified by the manufacture. Manufacture's installation instructions are to be followed. Each particular application/installation is to be specifically approved. 24V power supply lines are to be protected by Dehn Blitzductor order No. 918402.
2. The equipment is not allowed to be installed in the bridge and exposed weather deck area.
3. Manufacturing place:  
Siemens Elektronikwerk Karlsruhe, Östliche Rheinbrückenstr. 50, 76187 Karlsruhe Germany

Notes

- 1 The approval is valid only when the product is used in accordance with the manufacturer's conditions.
- 2 Changes of product design and materials which influence product quality are to be agreed with PRS.
- 3 Type Approval Certificate will be cancelled in the case of dissatisfactory service results, modifications made in the product structure or materials without PRS' consent, not advising PRS of the manufacturer's name change.

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In carrying out survey activities Polski Rejestr Statków S.A. (PRS) makes efforts to ensure that they are conducted with conscientiousness and the principles of good practice, with due regard paid to the state-of-the-art technology. However, neither PRS nor its Surveyors shall bear any civil liability for damage, loss or expense which may arise in consequence or as the outcome of conducting these activities, or the result of information or advice given to the customer by PRS, irrespective of whether or not such were the result of neglect, error or lack of proper information. Nevertheless, should the customer prove that such damage, loss or expense was due to negligence on the part of the Society or its Surveyors, PRS will pay compensation to the customer for his loss up to but not exceeding the amount due for services provided, forming the basis of the customer's claim. In no cases will PRS be responsible for indirect losses (loss of prospective profits, loss of contract, inability to undertake activities, etc.) sustained by the customer and associated with the executing of a commission by PRS.



# Polski Rejestr Statków

## Appendix to certificate no. TE/1902/883241/11

### Components:

Power supply module	6ES7 138
Interface module	6ES7 152
Digital input module	6ES7 131
Digital output module	6ES7 132
Analogue input module	6ES7 134
Analogue output module	6ES7 135
Watchdog module	6ES7 138
Terminal block	6ES7 193
Reverse module	6ES7 138
Coupler RS485-IS	6ES7 972
Profibus connector RS485-1S	6ES7 972
Watchdog	6ES7 138

### Certified safe type modules:

II 2 G Ex de ib IIC T4, I M2 Ex de ib I 6ES7 193-7...-...	Terminal Modules	KEMA 07ATEX0205
II 2 G Ex de [ib] IIC T4 and IM2 Ex de [ib] I 6ES7 138-7EA00-0AA0	Power supply	KEMA 04ATEX2263
II 2 G Ex ib IIC T4 and/or I M2 Ex ib I 6ES7 152-1AA0-0AB0	Interface module	KEMA 04ATEX1243
II 2 G (1) GD Ex ib[ia][iaD] IIC T4 and I M2 Ex ib[ia] I 6ES7 131-7RF00-0AB0	8DI NAMUR	KEMA 04ATEX1248
II 2 G (1) GD Ex ib[ia][iaD] IIC T4 and I M2 Ex ib[ia] I 6ES7 132-7RD...-0AB0	4 DO	KEMA 04ATEX1249
II 2 G (1) GD Ex ib[ia] IIC T4 or II 2 G (1) GD Ex ib[ia][iaD] IIC T4 and I M2 Ex ib[ia] I 6ES7 134-7TD00-0AB0	4 AI 2 WIRE HART	KEMA 04ATEX1244
II 2 G (1) GD Ex ib[ia][iaD] IIC T4 and I M2 Ex ib[ia] I 6ES7 134-7TD50-0AB0	4 AI 4 WIRE HART	KEMA 04ATEX1245
II 2 G (1) GD Ex ib[ia] IIC T4 or II 2 G (1) GD Ex ib[ia][iaD] IIC T4 and I M2 Ex ib[ia] I 6ES7 134-7SD50-0AB0	4 AI RTD	KEMA 04ATEX1247
II 2 G (1) GD Ex ib[ia] IIC T4 or II 2 G (1) GD Ex ib[ia][iaD] IIC T4 and I M2 Ex ib[ia] I 6ES7 134-7SD51-0AB0	4 AI RTD	KEMA 04ATEX1247
II 2 G (1) GD Ex ib[ia][iaD] IIC T4 and I M2 Ex ib[ia] I 6ES7 134-7SD00-0AB0	4 AI TC	KEMA 04ATEX1246
II 2 G (1) GD Ex ib[ia][iaD] IIC T4 and I M2 Ex ib[ia] I 6ES7 135-7TD00-0AB0	2 AO I HART	KEMA 04ATEX1250
II 2 G Ex ib IIC T4, I M2 Ex ib I 6ES7 138-7AA00-0AA0	Reserve module	KEMA 04ATEX1251
II 2 G Ex ib IIC T4 and I M2 Ex ib I 6ES7 972-0DA60-0XA0	Profibus connector RS485-IS	KEMA 04ATEX1233
II 3(2) G Ex nA[ib] IIC T4 6ES7 972-0AC80-0XA0	RS485-IS Coupler	KEMA 03ATEX1183X

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II 2 G Ex ib IIC T4 and IM2 Ex ib I  
6ES7 138-7BB00-0AB0

Watchdog module

KEMA 06ATEX0086