



Lloyd's
Register

Type Approval Certificate

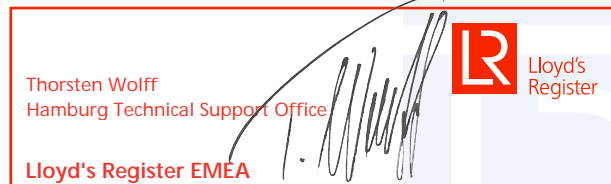
This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

This certificate supersedes certificate number 14/20045 issued on 18 August 2014 which is hereby cancelled.

This certificate is issued to:

PRODUCER	Siemens AG DF FA AS SIMATIC Type Test Werner-von-Siemens-Strasse 50 92224 Amberg Germany
PLACE OF PRODUCTION	Siemens AG Elektronikwerk Werner-von-Siemens-Strasse 50 92224 Amberg Germany
DESCRIPTION	Distributed I/O system
TYPE	SIMATIC ET200SP Comprising following modules: 6ES7 155 - interface module (IM) 6ES7 131 - digital input module 6ES7 132 - digital/relays output module 6ES7 134 - analogue input module 6ES7 135 - analogue output module 6ES7 137 - communication/IO link module 6ES7 193 - base units / bus adapter (BU/BA/Servermodules) 6ES7 510/512 - CPU 1510SP/1512SP 6ES7 138 - technology module: TM timer, PosInput, count 6ES7 545 - CM module

Certificate No.	14/20045 (E1)
Issue Date	30 September 2015
Expiry Date	17 August 2019
Sheet	1 of 2



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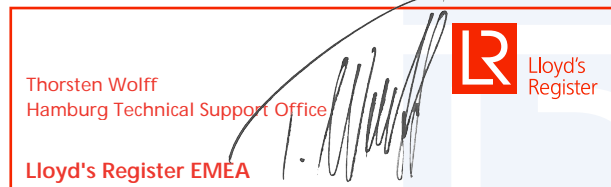
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APPLICATION	Marine applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register Type Approval System, Test Specification Number 1 – 2013.
ADDITIONAL TEST	Low temperature (-25°C/16 hrs)
DESIGN CODE	Manufacturer's specification
OTHER CONDITION	Surge immunity: External protective circuits required for DC systems (see System Manual A5E03461486 for recommendations). For use on bridge and deck zones the system's power supply lines are to be protected by filter type B84113C (manufactured by Epcos or equivalent: I=3A, C=2x0.47µF+2x4700pF, L=4x4.7mH). Energy meter 6ES7 134 is suitable for installation in general power distribution zone only. Installation of the units as per manufacturer's instruction (A5E03576849).

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The Design Appraisal Document No. HTS/ETS 32483-15 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No.	14/20045 (E1)
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