

## 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 LR Type Approval System.*

This certificate is issued to:

<b>PRODUCER</b>	imes GmbH
<b>PLACE OF PRODUCTION</b>	Dr. Herbert - Kittelstrasse 2 87600 Kaufbeuren Germany
<b>DESCRIPTION</b>	Cylinder Pressure Sensor with integrated temperature compensation module for continuous monitoring on Internal Combustion Engines.
<b>TYPE</b>	HTT - 04 CA
<b>APPLICATION</b>	Marine and offshore applications for use in environmental categories ENV1, ENV2 and ENV4 as defined in Lloyd's Register's Type Approval System Test Specification No. 1 - 2002.
<b>DESIGN CODE</b>	Manufacturer's Specification
<b>RATINGS</b>	Measuring range: 0...300bar Overload: 400bar Supply Voltage: 18...32VDC Output Signal: 4...20mA
<b>Certificate No.</b>	11/20041
<b>Issue Date</b>	15 November 2011
<b>Expiry Date</b>	14 November 2016
<b>Sheet</b>	1 of 2



Martin Lange

Hamburg Design Support Centre  
Lloyd's Register EMEA

Lloyd's Register EMEA  
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## ADDITIONAL TESTS

Dry Heat (75°C/2hrs)  
Low Temperature (- 40°C/2hrs)  
Ingress Protection IP67

## OTHER CONDITIONS

Final functional arrangements are to comply with the appropriate Lloyd's Register Rules and Regulations. The equipment/device is suitable for the installation in General Power Distribution Zones.

*"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. ETS 25706-11 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

Certificate No. 11/20041  
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