



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 is issued to:

<b>PRODUCER</b>	NORIS Automation GmbH Muggenhofer Strasse 95 90429 Nürnberg Germany		
<b>DESCRIPTION</b>	Alarm extension system		
<b>TYPES</b>	N3000-DMPxx	Display master unit Software version 1.**	(xx = 10, 20, 30)
	N3000-DSPyy	Display slave unit Software version 1.**	(yy = 10, 20)
	N3000-SSP01	Signal slave panel Software version 1.**	
<b>APPLICATION</b>	Marine, offshore and industrial applications for use in environmental categories ENV1, ENV2 and ENV3 as defined in Lloyd's Register's Type Approval System, Test Specification Number 1 - 2002.		
<b>ADDITIONAL TESTS</b>	Low Temperature Test -25°C/16hrs		
<b>STANDARD</b>	Manufacturers Specification		
<b>RATINGS</b>	Power supply: 24 V DC		
<b>Certificate No.</b>	12/20039 (E1)		
<b>Issue Date</b>	27 September 2017		
<b>Expiry Date</b>	26 September 2022		
<b>Sheet</b>	1 of 2		



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*The Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.*

*If the specified standards are amended during the validity of this certificate, the product is to be re-approved prior to it being supplied to vessels to which the amended standards apply.*

*The Design Appraisal Document No. HTS/ETS 35885-17 and its supplementary Type Approval Terms and Conditions form part of this Certificate.*

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### Part 3

#### Alarm and monitoring systems

Producer/Licence No.	Item Description	Technical Details	Category/Additional Tests	Remarks	Cert. No.
NORIS Automation GmbH Muggenhofer Strasse 95 D-90429 Nürnberg Germany	Alarm extension system  Types  N3000-DMPxx      Display master unit (xx = 10, 20, 30) Software version 1.** N3000-DSPyy      Display slave unit (yy = 10, 20) Software version 1.** N3000-SSP01      Signal slave panel Software version 1.**	Power supply (Vdc): 24	ENV1, ENV2, ENV3, (2002)  Low temperature test for 16hrs at -25°C	Expires: 26 September 2022	12/20039 (E1)

