

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:

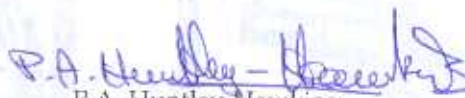
PRODUCER	Maics Ltd
PLACE OF PRODUCTION	PLP Automation 26 Botsari Street Pireaus, 18538 Greece
DESCRIPTION	Bulk carrier water ingress detection system
TYPE	(3/11) LD-BFIM <u>Comprising:</u> Control panel, Pepperl and Fuchs Z series zener safety barriers Trafag 8838/8858 pressure sensor
APPLICATION	Marine use in environmental categories ENV1 and ENV2 as described in Lloyd's Register Test Specification No. 1: 2002.
SPECIFIED STANDARD	SOLAS - Chapter XII Regulation 12 (Resolution MSC.134 (76)). IMO - Resolution MSC.145 (77): Dated 5 June 2003. IACS - UI No. SC180: Dated September 2003.
ADDITIONAL TESTS	Low Temperature: +5° C ± 3° C. Dry heat: 55° C ± 2° C for 16 hours. Enclosure Protection - Trafag 8838/8858 sensor: IP 68 (Pressurised immersion in salt water, 22.31 meter depth for 20 days).

"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. 04/00033 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

Certificate No.	04/00033
Issue Date	29 March 2004
Expiry Date	28 March 2009
Sheet	1 of 1

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