



## 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.

<b>Manufacturer</b>	<b>Autronica Fire &amp; Security AS</b>
<b>Address</b>	Bromstadvegen 59, Trondheim, 7047, Norway
<b>Type</b>	Fire And Gas Detection Alarm And Control Systems
<b>Description</b>	See Appendix for description
<b>Trade Name</b>	Autronica Fire and Gas Detection Systems
<b>Application</b>	Marine Application
<b>Specified Standard</b>	IACS UR E27 Rev.1 Sep 2023
<b>Other Conditions</b>	If the specified standards are amended during the validity of this certificate, the product is to be reapproved prior to it being supplied to vessels to which the amended standards apply.

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 Marine and Offshore India LLP of any modification or changes to the equipment in order to obtain a valid Certificate.

The Design Appraisal Document TSO-25-046148-E-01 and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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**Pawan Borate**

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A member of the Lloyd's Register group

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## Appendix

Equipment Name	Model	Operating System	Firmware	Application Software and Version
AutroMaster Touch Panel	Hatteland JH20T17 MMD/ISIC DuraMON WS / Acte	Ubuntu LTS 22.04	N/A	AutroMaster 4.4.3
AutroMAster Workstation PC	Nuvo 2700DS/ Hatteland	Ubuntu LTS 22.04	N/A	AutroMaster 4.4.3
AutroSafe Control and Operator Panel	BS-400 Series	Customized Linux Kernel v4.1.8	4.12.0 / 4.13.0	BSA-400A
Managed Switch	FL 2000 Series FL SFN Series	N/A	3.43	N/A
Firewall / VPN	FL mGuard 4xxx Series	N/A	10.4.1	mGuard10