



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.

Manufacturer	SOCOMEK S.A.
Address	1-4 Route de WESTHOUSE, Benfeld, 67230, France
Place of Production	Bender GmbH & Co. KG Londorfer Str. 65, Gruenberg, 35305, Germany
Type	Monitoring System
Description	ISOM AL/ALDx95-series: Insulation monitoring device ISOM DLDx40-12-series: Insulation fault locator ISOM D95-series: External front panel for use in combination with ISOM AL(D)-S variants For detailed product description, pls. refer to appendix.
Trade Name	ISOM AL, ISOM ALD, ISOM DLD, ISOM D
Application	Marine, industrial and offshore applications for use in environmental categories ENV1, ENV2 ^[1] and ENV3 ^[2] as defined in Lloyd's Register's Type Approval System, Test Specification Number 1, July 2015. Suitable for use in general power distribution zones only. [1] Standard devices [2] "W"-variants for enhanced environmental requirements

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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Specialist to Lloyd's Register EMEA
A member of the Lloyd's Register group

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Specified Standard	EN 50121-3-2: 2016 EN 61010-1: 2010 EN 61326-2-4: 2013 EN 61557-1: 2007 EN 61557-8: 2015 EN 61557-9: 2015 EN IEC 63000: 2018 IACS UR E10 Rev. 8: 2021
Ratings	For detailed ratings, pls. refer to appendix.
Additional Tests	Standard device: Dry heat test (+55° C / 16 h) Low temperature test (-25° C / 16 h) W-variants: Dry heat test (+70° C / 16 h) Low temperature test (-40° C / 16 h) Ingress Protection IP 65 (for ISOM D95 with front cover only)
Other Conditions	The integrated display of ISOM AL/ALDxxxW-series and the ISOM D95W panel are readable down to -30 °C only. 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.

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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.

Previous Version: 17/20089

The Design Appraisal Document HPC1762099-23/MK and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

DESCRIPTION

ISOM AL / ISOM ALD-series: Insulation monitoring device

ISOM DLD-series: Insulation fault locator

ISOM D-series: External front panel for use in combination with ISOM AL(D)-S variants

ISOM AL-series	Code Article
ISOM AL495	4734 9511
ISOM AL495W	4734 9513
ISOM AL495-S	4703 9511
ISOM AL495W-S	4703 9513
ISOM AL395	4733 9511
ISOM AL395W	4733 9513
ISOM AL495C	4734 9512
ISOM AL495CW	4734 9514
ISOM AL495C-S	4703 9512
ISOM AL495CW-S	4703 9514
ISOM AL395C	4733 9512
ISOM AL395CW	4733 9514

ISOM ALD-series	
ISOM ALD495	4735 9511
ISOM ALD495W	4735 9513
ISOM ALD495-S	4705 9512
ISOM ALD495W-S	4705 9513
ISOM ALD395	4735 9512
ISOM ALD395W	4735 9514

ISOM DLD-series	
ISOM DLD440-12S	4796 4404
ISOM DLD440-12SW	4796 4405
ISOM DLD440-12	4796 4402
ISMO DLD440-12W	4796 4403
ISOM DLD240-12S	4796 4204
ISOM DLD240-12SW	4796 4205
ISOM DLD240-12	4796 4202
ISOM DLD240-12W	4796 4203
ISOM DLD240-12B	4796 4206
ISOM DLD240-12BW	4796 4207

ISOM D-series	
ISOM D95	4799 0002
ISOM D95W	4799 0005



RATINGS

ISOM AL/ALD-series:	
Supply voltage range	AC / DC 24...240 V
Frequency range	50...400 Hz
Monitored IT-system voltage	AC 0...690 V DC 0...1000 V
Response values Ran1 and Ran2	1 k Ω ...10 M Ω
Software versions	IU: MU: D0438 / V1.x.x D0437 / V1.x.x D0440 / V1.x.x D0439 / V1.x.x D0449 / V1.x.x D0448 / V1.x.x

ISOM DLD-series	
Supply voltage range	AC/DC 24...240 V
Frequency range	50...400 Hz
Response value I Δ L	2...10 mA for ISOM DLD440 0.2...1 mA for ISOM DLD240
Response value I Δ n	100 mA...10 A for ISOM DLD440 100 mA...1 A for ISOM DLD240
Software versions	IU: MU: D0478 / V1.x.x D0473 / V1.x.x

ISOM D-series:	
Power supply range	24 VDC, powered by ISOM AL(D)-S variants
Software version	IU MU D0456 / V1.x.x ---