



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	Draeger Safety AG & Co. KGaA
Address	Revalstrasse 1, Luebeck, 23560, Germany
Type	Fire And Gas Detection Alarm And Control Systems
Description	Gas detection system
Trade Name	Polytron 8xx0
Application	Marine, offshore and industrial application for the use in environmental categories ENV1 and ENV2 as defined in Lloyd's Registers Type Approval System Test Specification Number 1, December 2021
Specified Standard	IEC 61508: 2010 EN IEC 60079-0: 2018 EN 60079-29-1: 2016 IEC 60092-504: 2016 IEC 60533: 2015 EN 50104: 2019 EN 45544-1: 2015 EN 45544-2: 2015 EN 45544-3: 2015

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Ratings Power supply: 24 V, 3-wire
 Current output: 4 to 20 mA (analogue)
 Software Version:
 4.x.x

Additional Tests Temperature: +70°C and -25°C for 2 hrs.

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 HTS-ETS 1662024-23/JK and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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Appendix

DESCRIPTION	Gas detection system	
TYPES	Transmitters:	8100 electro chemical 8200, 8310 catalytic 8700, 8720 infrared
	Enclosure:	aluminium, stainless steel
	Sensors:	electro chemical (8100) O ₂ , CO, H ₂ S, NH ₃ catalytic (8200) Dräger Sensor DQ catalytic (8310) Dräger Sensor IR infrared (8700) PIR 7000 334 infrared (8700) PIR 7000 340 infrared (8720) PIR 7200
	Interfaces:	XP or 'd', 4-20 mA / HART XP or 'd', 4-20 mA / HART w/ Relays XP or 'd', Modbus RTU 'e', 4-20 mA / HART 'e', 4-20 mA / HART w/ Relays

