Certificate No: LR2031742TA
Issue Date: 12/10/2020
Expiry Date: 11/10/2025

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	**TERRANOVA SRL**
Address	VIA ANTONIO GRAMSCI 3, TERRANOVA DEI PASSERINI, 26827, Italy
Place of Production	TERRANOVA SRL VIA ANTONIO GRAMSCI 3, TERRANOVA DEI PASSERINI, 26827, Italy
Type	Level Gauges
Description	Self-powered Level Gauge - Static pressure type
Trade Name	SPG Self Powered Gauges
Application	Marine & Offshore tanks containing water or fluids having a flash point above 600C.
Specified Standard	Lloyd's Register's Rules and Regulations for the Classification of Ships, 2020. EN 837-3
Ratings	Indicator Nominal Diameter: DN 100 & DN 150 Fluid Process Temperature (°C): -20° to 1300 Capillary Length: Up to 30 m Error introduced by diaphragm seal and capillary (25°C): ±1.5% Overall system accuracy (0 - 60°C): ±2 %

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A member of the Lloyd's Register group

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Ingress protection degree: Sensor; IP68 @ 30 mH2O & Indicator; IP65

Additional Tests

Flange, connection & all wetted parts: AISI 316
Sheath: AISI 304
Capillary: Copper or AISI 304
Special materials as Titanium or HC276 can be consider accordance with the Lloyd's Register Rules for the Manufacture, Testing and Certification of Materials.

Other Conditions

1. Level gauges are to be selected and installed in accordance with the manufacturer's recommendations and Lloyd's Register's Rules and Regulations for the Classification of Ships, Part 5, Chapter 13, Section 12.
2. When the level gauge is to be installed on tanks containing flammable liquids, then suitable isolating valves with non-resilient seats or of fire-safe type are to be fitted between the gauge and the tank.
3. In passenger ships gauges penetrating below the tank top is not permitted for fuel oil tanks, lubricating oil tanks and other tanks which may contain flammable liquids.
4. The level gauges are to be marked with the following information:

- Manufacturer's name or trademark.
- Designation type
- Pressure rating
- Temperature range
- Size

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. LR2031742TA and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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