



Certificate No:
TAP00002J0

TYPE APPROVAL CERTIFICATE

This is to certify:

That the Hydrostatic Level Gauge Indicator

with type designation(s)
SPG

Issued to

TERRANOVA S.r.l.
Terranova dei Passerini, LO, Italy

is found to comply with

DNV rules for classification – Ships Pt.4 Ch.6 Piping systems

Application :

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Max. working press.: head [m]; specified acc. to customer

Issued at **Hamburg** on **2022-05-06**

This Certificate is valid until **2027-05-05**.

DNV local station: **Italy/Malta CMC**

for **DNV**

Approval Engineer: **Christian Kaemmer**

.....
Olaf Drews
Head of Section

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Form code: TA 251

Revision: 2021-03

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Product description

The SPG self powered gauge allows to indicate the level of liquids in tanks internally & externally. It is working autonomous without using any external energy. Indication of depth of liquid and/or calibration in unit of volume. The main components of the self-powered gauges are: Indicator, capillary, flange, sensor and dry break valve.

Application/Limitation

The self-powered gauge is type-approved for water, seawater, lubricating oil, flammable liquid and fuel-oil of flash point over 65°C for tanks above double bottom.

The self-powered gauge is not type-approved for fuel-and oil tanks on passenger ships requiring penetration below the top of the tank.

On tanks containing flammable liquids, oil, self-powered gauge which penetrate the tank below the top is to be provided with a self-closing shut-off device and is to be protected against mechanical damage & fire by a steel-sheath.

Temperature range:

-20°C up to +130°C

Materials:

Sheath:	AISI 304
Capillary:	AISI 304 ; Copper
Wetted parts, connection & flange:	AISI 316

Type Approval documentation

Tests carried out

Marking of product

For traceability to this type approval, each product is to be marked with:

- manufacturer's name or trade-mark
- Type
- Liquid of height / Tank Volume
- TAG number

Periodical assessment

For retention of the Type Approval, a DNV Surveyor shall perform periodical assessment to verify that the conditions for the Type Approval are complied with. Refer to the Class Programme DNV-CP-0338, Sec.4.

To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>