



CERTIFICATE NUMBER 21-2085826-PDA
EFFECTIVE DATE 08-March-2021
EXPIRATION DATE 07-March-2026
ABS TECHNICAL OFFICE Singapore Engineering Services

CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

GOLDEN MOUNTAIN ENTERPRISE CO., LTD.

located at

**NO.9, LANE 133, XING-HUA ST., CHIEN-CHEN DISTRICT,
, KAOHSIUNG, Taiwan, R.O.C.-80673**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

Product Electronic Pressure Switch

Model Pressure Switch: PS2000W, PS2000X, PS2100W, PS2100X, PS2200W, PS2200X; Vacuum Switch: PS1000W and PS1000X; Pressure Switch: PSA2000W, PSA2000X, PSA2100W and PSA2100X; Pressure Switch for Liquid Level Controller: PSA2200W and PSA2200X; Differential Pressure Switch: DPS2000X, DPS2100W, DPS2100X, DPS2200W and DPS2200X; Filters for Instrumentation & Gas: F101; Strainer: ST series; Air Eliminator: STA.

This Product Design Assessment (PDA) Certificate remains valid until 07-March-2026 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau of Shipping

Vibin Chandrabose, Senior Engineer

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement

GOLDEN MOUNTAIN ENTERPRISE CO.

NO.9, LANE 133, XING-HUA ST.

CHIEN-CHEN DISTRICT

KAOHSIUNG TAIWAN

Taiwan 80673

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Fax: +886-7-8225588

Email: info@new-flow.com

Web: www.new-flow.com

Tier: 3 - Type Approved, unit certification not required

Product: Electronic Pressure Switch
Model: Pressure Switch: PS2000W, PS2000X, PS2100W, PS2100X, PS2200W, PS2200X;
Vacuum Switch: PS1000W and PS1000X;
Pressure Switch: PSA2000W, PSA2000X, PSA2100W and PSA2100X;
Pressure Switch for Liquid Level Controller: PSA2200W and PSA2200X;
Differential Pressure Switch: DPS2000X, DPS2100W, DPS2100X, DPS2200W and DPS2200X;
Filters for Instrumentation & Gas: F101;
Strainer: ST series;
Air Eliminator: STA.

Endorsements:

Intended Service:

Control or alarm for liquid indication in tanks and piping systems on Ships and Offshore Facilities.

Description:

Pressure Switch: NEMA 4, 4X, IP66/Explosion Proof Type/Digital;
Vacuum Switch: NEMA 4, 4X, IP66/Explosion Proof Type;
Pressure Switch for Liquid Level Controller: NEMA 4, 4X, IP66/Explosion Proof Type;
Differential Pressure Switch: NEMA 4, 4X, IP66/Explosion Proof Type;
Filters, Strainer and Air Eliminator

Rating:

Proof Pressure:

- Model PS2000W and PS2000X: 5000psi;
- Model PSA2000W and PSA2000X: 3000psi;
- 3.Model PS2100W, PS2100X, PS2200W, PS2200X, PS1000W, PS1000X, PSA2100W, PSA2100X, PSA2200W, PSA2200X, DPS2100W and DPS2100X: 1000 psi;
- Model DPS2200W and DPS2200X: 750psi

Pressure Rating:

- Model F101: 20 kg/cm2 Maximum;
- Model ST and STA: JIS 10 kgf/cm2, 20 kgf/cm2, ANSI 150# RF or 300# RF;
- Model DPS2000X: 200 kg/cm2

Ex Rating:

- Model PS1000X, PS2000X, PS2100X, PS2200X, PSA2000X, PSA2100X, PSA2200X, DPS2100X and DPS2200X: EX d IIB+H2 T6
- Model DPS2000X: Ex d IIB+H2 Gb, Ex tb IIIC Db

Temperature:

- Model PS2000W, PS2000X, PS2100W, PS2100X, PS2200W, PS2200X, PSA2000W, PSA2000X, PSA2100W, PSA2100X, PSA2200W, PSA2200X, DPS2100W, DPS2100X, DPS2200W and DPS2200X: -30 to 205 Deg. C;
- Model PS1000W, PS1000X: -5 Deg. C~150 Deg. C.;
- Model DPS2000X: max. 80 Deg. C;

Service Restriction:

1. Unit Certification is not required. If the manufacturer or purchaser requests an ABS Certificate for compliance with a specification or standard; the specification or standard, including inspection standards and tolerances, must be

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clearly defined the conformity criteria.

2. ATEX certified equipment is not to be installed in hazardous areas on U.S vessels unless it can be proved to have been tested to the applicable IEC 60079 series standards by an independent laboratory accepted by the U.S Coast Guard. USCG notice 01-12 (February 7, 2012).

Comments:

1. The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in these products.
2. Where pressure sensing devices are fitted in piping systems, valves are to be provided so that the devices can be isolated and removed without impairing the integrity of the pressurized system.
3. This assessment does not cover the Model STH, which is having clamp fixed type cover and where Model ST using cast iron as material.
4. This assessment does not cover Model DPG3100T, 1" Digital Pressure Switch indicated in the catalogue.

Notes/Drawing/Documentation:

Drawing No.: 1c, Pressure Switch, Differential Pressure Switch Catalogue, Revision: -, Pages: 28

Drawing No.: 2012-00320, Explosion Proof Certificate for PS1000X etc., Revision: -, Pages: 2

Drawing No.: M-0, Dimension for ST Series, Revision: -, Pages: 1

Drawing No.: 2c, Explosion Proof Certificate for DPS2000X - IECEx UL 13.0039U, Revision: -, Pages: 11

Terms of Validity:

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STANDARDS

ABS Rules:

Rules for Conditions of Classification (2021) – 1-1-4/7.7, 1-1-A3, 1-1-A4, which covers the following:

Rules for Building and Classing Marine Vessels: 4-1-1/Table 3, 4-4-1A/3.1, 4-4-1A/5.7, 4-6-2/9.11.2, 4-8-3/Table 2

Rules for Conditions of Classification (2021) – Offshore Units and Structures 1-1-4/9.7, 1-1-A2, 1-1-A3, which covers the following:

Rules for Building and Classing Mobile Offshore Units: 4-2-1/11.27.2, 4-3-3/Table 1

National:

NA

International:

NA

Government:

NA

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EUMED:

NA

OTHERS:

NA