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| CERTIFICATE NUMBER | 21-2083536-PDA |
| EFFECTIVE DATE | 22-Feb-2021 |
| EXPIRY DATE | 21-Feb-2026 |
| ABS TECHNICAL OFFICE | Hamburg Engineering Department |

CERTIFICATE OF Product Design Assessment

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

ENDRESS + HAUSER CONDUCTA GMBH + CO. KG

located at

DIESELSTR. 24, D-70839 GERLINGEN, Germany

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.

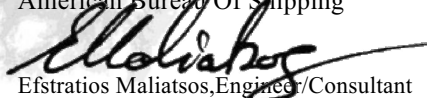
Product: Meter, Flowmeter
Model: Smartec CLD18
Endorsements:
Tier: 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 21/Feb/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


Efstratios Maliatsos, Engineer/Consultant

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 (2010)

ENDRESS + HAUSER CONDUCTA GMBH + CO. KG

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Email: uwe.roessiger@conducta.endress.com

Web: www.conducta.endress.com

Tier: 2 - PDA Issued

Product: Meter, Flowmeter

Model: Smartec CLD18

Endorsements:

Intended Service:

Compact inductive conductivity measurement sensor for liquids.

Description:

System consisting of transmitter and sensor.
Illuminated LC-display.

Rating:

Ambient Temperature Range : -20 to +60 °C

Temperature of medium: -10°C to 130°C

Power supply: 24V DC

Output signal: 0/4...20mA

Degree of protection: IP69K

Service Restriction:

Unit Certification is not required for this product.

If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.

The sensing device is to be fitted with valves or arranged such that it may be isolated and removed without emptying tanks or without impairing the integrity of pressurized systems.

Comments:

The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

Each particular application and installation is to be specifically approved in conjunction with the relevant system, location and environmental conditions.

Notes/Drawing/Documentation:

Drawing No. 403124-2415, Dimension Drawing, Revision: -, Pages: 1

Drawing No. BA01149CEN, Operating Instruction, Revision: -, Pages: 1

Drawing No. CLD18, Dimension Drawing, Revision: -, Pages: 1

Drawing No. E151998E1, Test Report, EMC, Phoenix Testlab, 18.08.2015, Revision: -, Pages: 1

Drawing No. None 01, Variations, Revision: -, Pages: 1

Drawing No. TI01080CEN_0214, Technical Information, Revision: -, Pages: 1

Drawing No. U151998E1, Test Report, Environmental, Phoenix Testlab, 28.09.2015, Revision: -, Pages: 1

----- Revalidation 2021-----

Drawing No. E201128E1, EMC Test Report, 6GHZ, Phoenix Testlab, 01.10.2020, Revision: -, Pages: -

Drawing No. TI01080CEN_0519, SMARTEC CLD18, Technical Information, Revision: -, Pages: -

Drawing No. PBT GF10 Utradur B 4406 G2, Material Datasheet, Revision: -, Pages: -

Drawing No. UL CertificationE41871_BASF, Material UL Certification, Revision: -, Pages: -

Terms of Validity:

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STANDARDS

ABS Rules:

2021 Marine Vessel Rules 1-1-4/7.7, 1-1-A3, 1-1-A4, 4-8-3/1.7, 4-8-3/ 1.11.1, 4-8-3/1.17, 4-9-9/13.1, 4-9-9/Table 1
2021 Mobile Offshore Units Rules: 1-1-4/9.7, 1-1-A2, 1-1-A3, 4-3-1/11, 4-3-1/15, 4-3-1/17

National:

NA

International:

IACS UR E10 Rev.7

Government:

NA

EUMED:

NA

OTHERS:

NA