Certificate No: LR25145343TA
Issue Date: 21/01/2026
Expiry Date: 20/01/2031

# 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** | **Hydac Electronic GmbH** |
| **Address** | Haupstr. 27, Saarbrücken, 66128, Germany |
| **Place of Production** | Hydac Electronic GmbH<br>Haupstr. 27, Saarbrücken, 66128, Germany |
| **Place of Production** | Hydac Electronic s.r.o.<br>Krasna Horka 290, Tvrdosin, 027 44, Slovakia |
| **Type** | Switches - Pressure |
| **Description** | Electronic pressure switch with IO-Link communication and integrated display<br><br>Type<br>HPS 24(1)(2) - F31 - xxxx - S00<br>(1) Mechanical connection: 4 = G1/4 A ISO 1179-2 with orifice or other thread standards<br>(2) Electrical connection: 6 = Plug connector M12x1, 4 pole (without mating connector)<br>xxxx Measuring ranges in bar: 0001 (-1..1); 02.5; 06.0; 0010; 0016; 0025; 0040; 0100; 0160; 0250; 0400; 0600; 1000 |
| **Trade Name** | HPS2000 |
| **Application** | Marine and offshore applications for use in environmental categories ENV1, |

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**Thorsten Wolff**

Electrical & Control - Senior Specialist to
Lloyd's Register EMEA
A member of the Lloyd's Register group

71 Fenchurch Street, London, EC3M 4BS, United Kingdom

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# Type Approval Certificate

ENV2, ENV3 and ENV4 as defined in Lloyd's Register's Type Approval System Test Specification No. 1 - 2024.

**Specified Standard**

Manufacturer's specification
IACS unified requirements E10 (Rev.9 Aug 2023)

**Ratings**

Nominal power supply: 24 VDC
Measurement range: -1…1 bar to 1000 bar
Output signal:
Output 1: Switching output point and IO-Link communication pin
Output 2: configurable as switching output or analogue output
Switching outputs: PNP, NPN and Push-Pull transistor switching outputs
Analogue output: 4...20 mA
0...10 V

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 TSO-25-029302/TW and its supplementary Type Approval Terms and Conditions form part of this Certificate.

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