Certificate no.:
TAA00003CR

TYPE APPROVAL CERTIFICATE

This is to certify:

that the Pressure and TemperatureTransmitter

with type designation(s)
Smartline Multivariable SMV800

issued to
Honeywell International Inc.
Fort Washington, PA, USA

is found to comply with
DNV rules for classification – Ships, offshore units, and high speed and light craft

Application:

Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV.

Location classes:

Temperature	**D**
Humidity	**B**
Vibration	**A**
EMC	**B**
Enclosure	**C**

Issued at **Hamburg** on **2024-12-13**
This Certificate is valid until **2029-12-12**.
DNV local unit: **Houston Offshore Services**

Approval Engineer: **Torsten Dzillak**

for **DNV**

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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.

Product description

The SMV800 SmartLine multivariable transmitter measures differential pressure, static pressure (absolute or gauge), and process temperature. These measurements are used to calculate volumetric or mass flow rates. The measured values and calculated flow can be read by a connected Host.
Available communication protocols are Honeywell Digitally Enhanced (DE), HART and Modbus RTU. Digital or analog (4-20mA) output modes are available. The SMV800 measures process temperature from an external RTD or thermocouple.
Universal temperature input is available as a selectable feature with the device or as license enabled, field upgradable option.
With Modbus protocol, Flow calculation capability also is available as selectable feature with the device or as license enabled, field upgradable option while this is a standard feature with HART and DE protocols.

Device Variables

SMV800 supports 6 device variables:

1. Differential Pressure
2. Static Pressure
3. Process Temperature
4. Calculated Flow Rate
5. Totalizer
6. Meter Body Temperature.

For DE transmitters, Differential Pressure, Static Pressure, Process Temperature or Flow may be assigned to analog output. In HART transmitters, Differential Pressure, Static Pressure, Process Temperature, Flow and Totalizer may be mapped to device variables PV (analog output), SV, TV or QV and Meter Body temperature may be mapped to SV, TV, or QV. All six variables are Modbus process variables.

Place of manufacture

Honeywell System Sensor de Mexico,
S. de R.L. de C.V., Av. Miguel de la Madrid #8102,
Col. Lote Bravo, C.P.32695 Cd. Juárez,
Mexico

Honeywell Automation India Ltd
Plot No. 3, Gat No. 181,Village Fulgaon, Tal-Haveli,
Pune: 412216, Maharashtra,
India

Application/Limitation

Ex-certification is not covered by this certificate. Application in hazardous area to be approved in each case according to the Rules and Ex-Certification/ Special Condition for Safe Use listed in valid Ex-certificate issued by a notified/recognized Certification Body.

Type Approval documentation

Tests carried out

Applicable tests according to class guideline DNV-CG-0339, August 2021.

Marking of product

The products to be marked with:
- manufacturer name
- model name
- serial number
- power supply ratings

Periodical assessment

The scope of the periodical assessment is to verify that the conditions stipulated for the type are complied with, and that no alterations are made to the product design or choice of systems, software versions, components and/or materials.

The main elements of the assessment are:

- Ensure that type approved documentation is available
- Inspection of factory samples, selected at random from the production line (where practicable)
- Review of production and inspection routines, including test records from product sample tests and control routines
- Ensuring that systems, software versions, components and/or materials used comply with type approved documents and/or referenced system, software, component and material specifications
- Review of possible changes in design of systems, software versions, components, materials and/or performance, and make sure that such changes do not affect the type approval given
- Ensuring traceability between manufacturer's product type marking and the type approval certificate

Periodical assessment is to be performed after 2 years and after 3.5 years. A renewal assessment will be performed at renewal of the certificate.

END OF CERTIFICATE