



TYPE APPROVAL CERTIFICATE

Certificate no.:
TAA00000SF
Revision No:
4

This is to certify:

that the **Electro-Pneumatic Transmitter**

with type designation(s)
Model 140

issued to

IMI International s.r.o.
Modřice, Czech Republic

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	C
Humidity	B
Vibration	B/C
EMC	B
Enclosure	B

Issued at **Høvik** on **2024-12-03**

This Certificate is valid until **2029-06-30**.

DNV local unit: **Prague CMC**

Approval Engineer: **Ståle Sneen**

for **DNV**



Digitally signed
by Elter, Frederik
Tore
Location: DNV
Høvik, Norway

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 USD 300 000.

Product description

The model 140 converter is a precision electronic pressure regulator which provides an output pressure that is proportional to a given control signal.

Options:

EX140ooup4ecc

Where:	oo: Output pressure:	01 - 0.2 ... 1 bar (3 ... 15 psi), 02 - 0.4 ... 2 bar (6 ... 30 psi).
	u: Unit of Pressure:	B - Bar, P - Psi, K - kPa, G - kg/cm ² .
	p: Ports:	J - G1/4 K - 1/4 NPT.
	e: Conduit Entry:	E - 1/2 NPT, L - M20 Cenelec Only.
	cc: Certification:	E1 - Triple certification/ triple agency, E2 - Cenelec only (M20x1.5).

Rating: 4-20 mA input.

Place of manufacture

IMI International s.r.o.
Evropská 852, 66442 Modřice, Czech Republic

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV, documentation for the actual application is to be submitted for approval by the manufacturer of the application system in each case. Reference is made to DNV rules for classification of ships Pt.4 Ch.9 Control and monitoring systems.

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

Data sheet: 2006-115 Rev. e
Manual: 2011-035 Rev. d
Test reports: 75927888 Report 01 Issue 1 dated 2014-11: TÜV EMC Test
75927888 Report 02 Issue 1 dated 2014-11: TÜV Environmental Test
75931721 Report 01 Issue 1 dated 2015-09: TÜV Environmental Test
75949354-01 Issue 01 dated 2020-07-22: TÜV Supplementary test for radiated EMC to 6 GHz

Type approval renewal assessment report for TAA00000SF, UK & Ireland CMC & VMC 2024-01-25.

Type approval renewal assessment report for TAA00000SF, Prague CMC 2024-03-14.

Tests carried out

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

Marking of product

IMI NORGREN
Model 140 I/P Converter,
IP66,
Serial number,
Part number,
Company address.

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