



TYPE APPROVAL CERTIFICATE
No. ELE211824XG

This is to certify that the product below is found to be in compliance with the applicable requirement of the RINA type approval system.

<i>Description</i>	Current to pressure converter
<i>Type</i>	Model 140
<i>Applicant</i>	IMI INTERNATIONAL S.R.O. - Central Trade Park Evropska 852 664 42 Modrice CZECH REPUBLIC
<i>Manufacturer</i>	IMI INTERNATIONAL S.R.O. - Central Trade Park
<i>Place of manufacture</i>	Evropska 862 664 42 Modrice CZECH REPUBLIC
<i>Reference standards</i>	Rules for the Classification of Ships - Part C - Machinery Systems and Fire Protection; Ch. 3; Sec. 8, Table 1

Issued in **HAMBURG** on **October 21, 2024**. *This Certificate is valid until* **October 20, 2029**

RINA Services S.p.A.
Giuseppe Russo

This certificate consists of this page and 1 enclosure

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Model 140

Description:

Current to pressure electronic converter, Model 140.

Electrical parameters:

Input signal	4 - 20 mA (two wire) Terminal voltage < 6,5 V at 20mA
Failure mode	Pressure falls to below 15mbar in < 2sec when input signal fails
Overload protection	100mA max overload current
Insulation resistance	> 100M Ω at 850 VDC, electrical terminals to chassis
Connections conductor	1/2" NPT or M20, internal terminal block with capacity up to 2,5mm ²
Span/Zero	Independently adjustable tight shut off point adjustable up to 4,5 mA
Input impedance	The impedance changes with applied current: 1370 Ω @ 4mA; 470 Ω @ 12mA; 290 Ω @ 20mA

Mechanical parameters:

Output pressure	0,2 - 1 Bar (3 - 15 PSI), 0,2 - 2 Bar (3 - 30 PSI)
Supply pressure	1,2 - 10,3 Bar (18 - 150 PSI)
Temperature range	-40°C - +85°C
IP/NEMA	IP66; NEMA Type 4x
Material	Aluminium/Zinc casing, coated with black epoxy powder

Technical description

2011-035d - 140 Handbook.pdf

2006-115e - N_en_6_6_330_140.pdf

2015-027a - Model 140 General Arrangement - Marine Cert.pdf

Test Reports/Certificates:

LRQA Certificate of Approval - September 2021.pdf

TUV EMC Test - 75927888 Report 01 Issue 1.pdf

TUV Environmental Test - 75927888 Report 02 Issue 1.pdf

TUV_UKAS_17025_0141_cert.pdf

75931721 Report 01 Issue 1.pdf

HAMBURG October 21, 2024

