

TYPE APPROVAL CERTIFICATE

This is to certify:**That the Pressure Transmitter**

with type designation(s)

Pressure Transmitters: FAP600/610

Issued to

**TEMPRESS A/S
RISSKOV, Denmark**

is found to comply with

DNV GL 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 GL.****Location classes:**

Temperature	D
Humidity	B
Vibration	B
EMC	B
Enclosure	D

Issued at **Høvik** on **2017-07-26**for **DNV GL**This Certificate is valid until **2022-07-25**.DNV GL local station: **Aalborg**Approval Engineer: **Nils Jarem**

**Odd Magne Nesvåg
Head of Section**

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.



Product description

Product Series	Produce Model	Interface And Installation Mode
FAP600 Series	FAP600-00-A	Direct Input Type (316L)
	FAP600-00-B	Direct Input Type (Titanium Grade II)
	FAP600-01-A	G1/2 Thread Interface (316L) Input Type
	FAP600-01-B	G1/2 Thread Interface (Titanium Grade II) Input Type
	FAP600-02-A	M20×1.5 Thread Interface (316L) Input Type
	FAP600-02-B	M20×1.5 Thread Interface (Titanium Grade II) Input Type
FAP610 Series	FAP610-00-A	G1/4 Thread Interface (316L)
	FAP610-00-B	G1/4 Thread Interface (Titanium Grade II)
	FAP610-01-A	G1/2 Thread Interface (316L)
	FAP610-01-B	G1/2 Thread Interface (Titanium Grade II)
	FAP610-02-A	M20×1.5 Thread Interface (316L)
	FAP610-02-B	M20×1.5 Thread Interface (Titanium Grade II)

Place of manufacture

Xi'an Chinastar M&C LTD
D Section Gazelle Valley, C-1 Region Pioneering Development Park #69 Jinye Road, Xi'an,
Hi-tech Development Zone,
Xi'an, Shaanxi Province, P. R. China

Approval conditions

The Type Approval covers hardware listed under Product description. When the hardware is used in applications to be classed by DNV GL, 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 GL 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

	Document	Version	Comment
Drawings:	FAP600-00-A	R1	FAP 600 Assembly Drawing
	FAP600-00-B	R1	FAP 600 Assembly Drawing
	FAP600-01-A	R1	FAP 600 Assembly Drawing
	FAP600-01-B	R1	FAP 600 Assembly Drawing
	FAP600-02-A	R1	FAP 600 Assembly Drawing
	FAP600-02-B	R1	FAP 600 Assembly Drawing
	FAP600-DL	R1	FAP 600 Schematic Drawing
	FAP600-JL	R1	FAP 600 Wiring Diagram
	FAP610-00-A	R1	FAP 610 Assembly Drawing
	FAP610-00-B	R1	FAP 610 Assembly Drawing
	FAP610-01-A	R1	FAP 610 Assembly Drawing
	FAP610-01-B	R1	FAP 610 Assembly Drawing
	FAP610-02-A	R1	FAP 610 Assembly Drawing
	FAP610-02-B	R1	FAP 610 Assembly Drawing
	FAP610-DL	R1	FAP 610 Schematic Drawing
	FAP610-JL	R1	FAP 610 Connection Diagram
Instruction:	FAP600610-SS	R1	FAP600/610 Pressure Transmitter
Test reports:	H201606146599-01EN-G1	2017-03-03	Env. Test for FAP610-00-A
	H201606146599-02EN-G1	2017-03-03	Env. Test for FAP600-01-B
	E201606142261-2-G1	2017-03-03	EMC test for FAP600 and FAP610
	H201704121382-01EN	2017-06-21	Supplemental tests.

Type approval initial assessment report, DNV GL Wuhan on 2016-01-22.

Tests carried out

Applicable tests according to class guideline DNVGL-CG-0339, November 2016.

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