

EU-Type Examination Certificate

- [2] EQUIPMENT OR PROTECTIVE SYSTEM INTENDED FOR USE IN POTENTIALLY EXPLOSIVE ATMOSPHERES DIRECTIVE 2014/34/EU
- [3] EU-Type Examination Certificate Number: Presafe 17 ATEX 9648X Issue 0
- [4] Product: FAP600 and FAP610 Pressure Transmitter
- [5] Manufacturer: TEMPRESS A/S
- [6] Address: Nordlandsvej 64-66, Dk-8240 Risskov Denmark
- [7] This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- [8] DNV GL Nemko Presafe AS, notified body number 2460, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.
The examination and test results are recorded in confidential reports listed in section 16.
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 60079-0:2012/A11:2013, EN 60079-11:2012 and EN 60079-26:2015.
- [10] If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
- [11] This EU - TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
- [12] The marking of the product shall include the following:

 II 1 G Ex ia IIC T4 Ga

Ståle Sandstad
For DNV GL Nemko Presafe AS
The Certificate has been digitally signed.
See www.presafe.com/digital_signatures for more info



Date of issue: 2017-08-17

This certificate replaces
previous certificate
issued by DNV.

This certificate may only be reproduced in its entirety and without any change, schedule included.

[13]

Schedule

[14] EU-TYPE EXAMINATION CERTIFICATE No.: Presafe 17 ATEX 9648X Issue 0

[15] **Description of Product**

The FAP600 and FAP610 series pressure transmitters are based on a ceramic capacitor sensing element. Output is 4-20 mA current loops. The intrinsic safety circuits are installed in titanium or stainless steel housing and circuit is completely encapsulated. Each type of circuit boards has the same main parts; only the circuit connecting the sensor and sensors are different. The pressure transmitter is enclosed in different sorts of “connectors”. The electrical connection of FAP610 is used with Hirschmann connector which is made of plastic. The pressure transmitter must be powered by a safety barrier installed in a safety place.

Type designation

Product Series	Product 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)

Electrical Data

Power supply: 24 V d.c.

Output Type: 4-20 mA

Intrinsically safe parameters: $U_i=28$ V d.c., $I_i=93$ mA, $P_i=0.65$ W, $C_i=0.02$ uF, $L_i=2.7$ uH

Degrees of protection (IP Code)

IP 68 (FAP600)/IP 65 (FAP610)

Ambient temperature:

-20°C to +80°C

Routine tests

N/A

[16] Report No.: Z0437129, Rev. 02

Project No.: PRJC-530807-2015-PRC-CHN

[17] Specific Conditions of Use

- Products with titanium enclosures can not be installed in zone 0, zone 1 unless mounted in an outer enclosure according to EN 60079-0 paragraph 8.3.

- The pressure transmitters must be installed and used according to instruction.

[18] Essential Health and Safety Requirements

Essential Health and Safety Requirements (EHSRs) are covered by the standards listed at item 9.

[19] Drawings and documents

Number	Title	Rev.	Date
FAP600-00-A	FAP600 Assembly Drawing	R1	2014.09.08
FAP600-01-A	FAP600 Assembly Drawing	R1	2014.09.08
FAP600-02-A	FAP600 Assembly Drawing	R1	2014.09.08
FAP600-00-B	FAP600 Assembly Drawing	R1	2014.09.08
FAP600-01-B	FAP600 Assembly Drawing	R1	2014.09.08
FAP600-02-B	FAP600 Assembly Drawing	R1	2014.09.08
FAP600-DL	FAP600 Schematic Drawing	R1	2014.09.08
FAP600-JL	FAP600 wiring diagram	R1	2014.09.08
FAP600-1.1	FAP600 PCB Welding Figure	R1	2014.09.08
FAP600-1.01	FAP600 Print board	R1	2014.09.08
CS-FAP600-1f	FAP600 PCB	R1	2014.09.08
FAP600-2.1	FAP600 PCB Welding Figure	R1	2014.09.08
FAP600-2.01	FAP600 Print board	R1	2014.09.08
CS-FAP610-2d	FAP600 PCB	R1	2014.09.08
FAP600-3.1	FAP600 PCB Welding Figure	R1	2014.09.08
FAP600-3.01	FAP600 Print board	R1	2014.09.08
CS-FAP610-3b	FAP600 PCB	R1	2014.09.08
FAP600-CQ	Bill of Materials (2 sheets)	R1	2014.09.08
FAP600-NP	Nameplate drawing	R1	2014.09.08
FAP610-00-A	Assembly Drawing	R1	2014.09.08
FAP610-01-A	Assembly Drawing	R1	2014.09.08
FAP610-02-A	Assembly Drawing	R1	2014.09.08
FAP610-00-B	Assembly Drawing	R1	2014.09.08
FAP610-01-B	Assembly Drawing	R1	2014.09.08
FAP610-02-B	Assembly Drawing	R1	2014.09.08
FAP610-DL	FAP610 Schematic Drawing	R1	2014.09.08
FAP610-JL	FAP610 Connection diagram	R1	2014.09.08
FAP610-1.1	FAP610 PCB Welding Figure	R1	2014.09.08
FAP610-1.01	FAP610 Print board	R1	2014.09.08

Number	Title	Rev.	Date
CS-FAP610-1e	FAP610 PCB	R1	2014.09.08
FAP610-CQ	Bill of Materials (2 sheets)	R1	2014.09.08
FAP610-NP	Nameplate drawing	R1	2014.09.08

[20] Certificate History

Issue	Description	Issue date	Report no.
0	Original issue (Replaces DNV 13 ATEX 2918X)	2017-08-17	Z0437129, Rev. 02

END OF CERTIFICATE