

**TYPE APPROVAL CERTIFICATE****This is to certify:****That the Pressure Transmitter**

with type designation(s)

**Pressure transmitters FCX-AII & FCX-AIII**

Issued to

**Fuji Electric France S.A.S**  
**Clermont-Ferrand, France**

is found to comply with

**DNV GL rules for classification – Ships and offshore units****Application :****Product(s) approved by this certificate is/are accepted for installation on all vessels classed by DNV GL.****Location classes:**

<b>Temperature</b>	<b>D</b>
<b>Humidity</b>	<b>B</b>
<b>Vibration</b>	<b>B</b>
<b>EMC</b>	<b>B</b>
<b>Enclosure</b>	<b>C</b>

This Certificate is valid until **2020-11-18**.Issued at **Høvik** on **2015-11-19**DNV GL local station: **Paris CMC / VMC**Approval Engineer: **Nils Jarem**for **DNV GL**

Digitally Signed By: Sneen, Ståle

Location: DNV GL Høvik, Norway

Signing Date: 2015-11-20, on behalf of

**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

FKA...5	ABSOLUTE PRESSURE TRANSMITTER
FKC...5	DIFFERENTIAL PRESSURE (FLOW) TRANSMITTER
FKG...5	PRESSURE TRANSMITTER
FKH...5	ABSOLUTE PRESSURE TRANSMITTER
FKP...5	PRESSURE TRANSMITTER
FKE...F	LEVEL TRANSMITTER
FKP, FKH...F	ABSOLUTE AND GAUGE PRESSURE TRANSMITTER FOR REMOTE SEAL
FKB, FKD, FKM...F	ABSOLUTE, DIFFERENTIAL AND GAUGE PRESSURE TRANSMITTER FOR REMOTE SEAL
FKC...4	DIFFERENTIAL PRESSURE (FLOW) TRANSMITTER FOR HIGH STATIC PRESSURE

### 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	Revision
Data sheets:	ECNO611c	--
	EDSF5-91g	2014-03
	EDSF6-05k	2014-03
	EDSF6-134i	2014-03
	EDSF7-68h	2014-03
	EDSF5-92g	2014-03
	EDSF5-97f	2014-03
	EDSF5-98g	2014-03
	EDSF6-06g	2014-03
Manuals:	HD FCX AII 102	a / 2008-10
	INF-TN4 FCXA2f-E	2010-02
	INF-TN5FCXA2V5e-E	2014-04
Test reports:	DNV-Survey_Test-Report_20150930	
	R-ADE-BNN-15-300314-1/A	0 / 2015-07-31
	R-ADE-BNN-15-300314-2/A	0 / 2015-08-10
	R-ADE-BNN-15-300314-3/A	0 / 2015-09-02
	AU/SIM/ExTR06.0009/00	2006-05-22
	CA/CSA/ExTR08.0006/00	2008-07-15
	R041-15-103257-1A	1 / 2015-07-27
	S42382	2004-06-28
	S22551-1	2002-08-23
	E93166	2010-03-05

Type approval initial assessment report, DNV GL Paris 2015-10-29.

### Tests carried out

Applicable tests according to Standard for Certification No. 2.4, April 2006.

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Job Id: **262.1-019788-1**  
Certificate No: **TAA000006R**

### **Marking of product**

The products to be marked with:

- manufacturer name
- model name
- serial number

### **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 at least every second year and at renewal of this certificate.

END OF CERTIFICATE