

Fuji Electric France

Overview



Innovating Energy Technology

Fuji Electric France

Key dates

June
1995

Fuji Electric Co., Ltd. relocated the European sales and production headquarters for pressure transmitters to Clermont-Ferrand, France.

May
1996

A French sales network is created and the first agency is opened in Paris.

December

Manufacturing of Measurement Cells commences, including the installation of a 10,000 class clean room (ISO 7).

September
1997

Marketing and European sales coordination are handled in the French factory

November

Fuji Electric France set up a quality assurance system to achieve external accreditation of our quality management system. ISO 9000 certification is obtained, our commitment to continuous improvement.

May
2002

Beginning of gas analysis activity.

September
2008

As a guarantee of the quality of its transmitters, Fuji Electric obtains ISO 9001 version 2008 certifications and IECEx/ATEX

October
2012

Implementation of an integrated management system based on continuous improvement and in accordance with international standards.

2015

Fuji Electric France celebrated its 20th anniversary and opened its brand new pressure transmitter manufacturing plant in Courmon-d'Auvergne, France.

August
2016

Achievement of SIL2 SIL 3 operating safety certificates for pressure transmitters FCX-AII V5.

April
2018

Creating a line of inverters production.

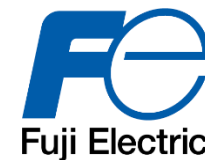
2020

Fuji Electric France celebrated its 25th anniversary.



Fuji Electric France

Key figures



Annual production capability
30 000 pressure transmitters

29 millions €
turnover in 2019

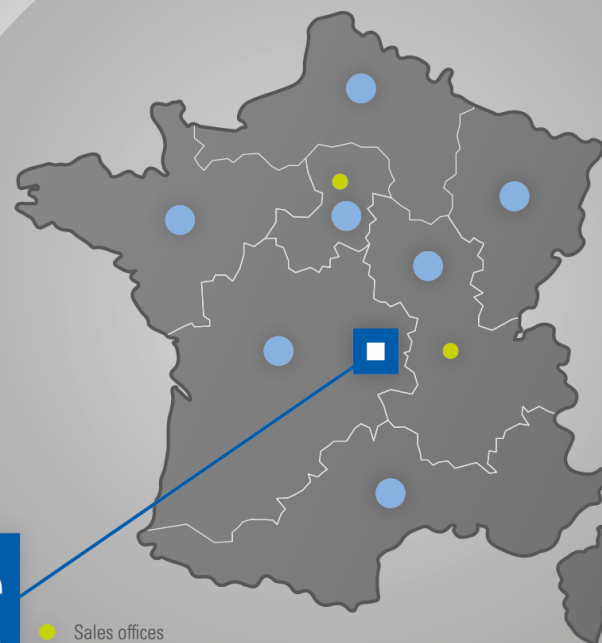
As for March, 2020

140 employees
in 2 factories and 6 offices

50 EMEA countries
service sales networks



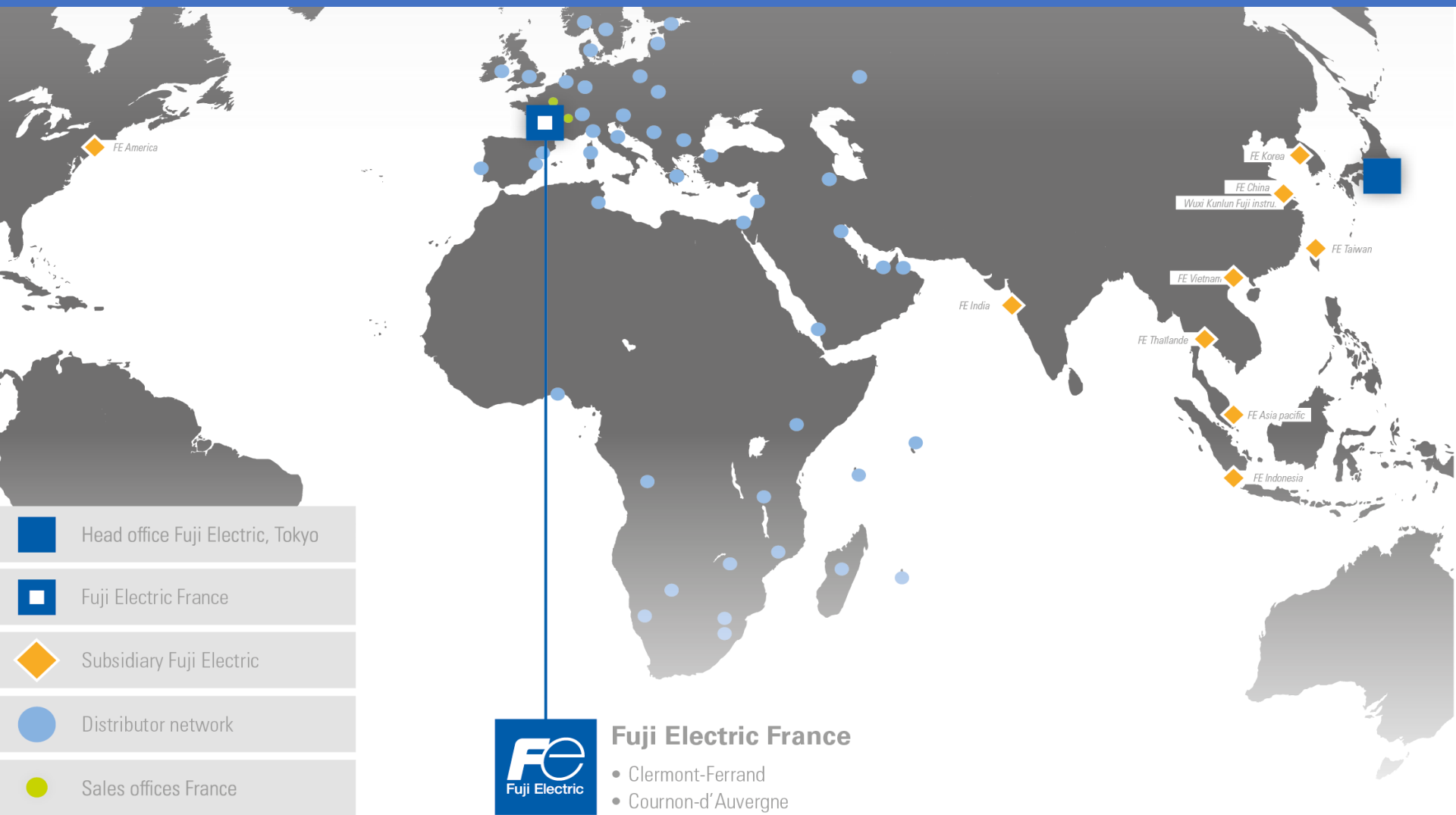
Headquarter



● Sales offices
● Sectors sales

Fuji Electric France

Sales network

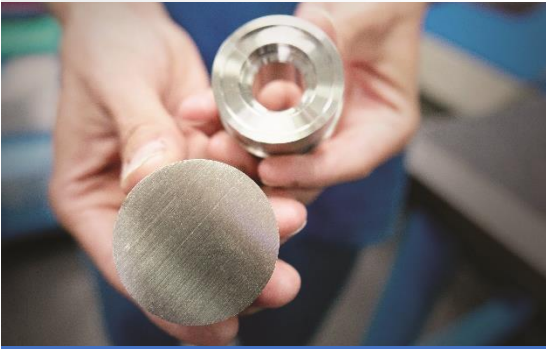


Manufacturing process

In Cournon d'Auvergne and Clermont-Ferrand / France

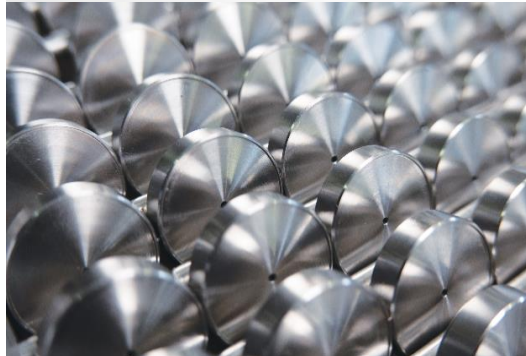
1

RAW MATERIALS



2

**PART MACHINING
AND PRODUCTION**



3

TIG WELDING STATIONS



4

CLEAN ROOM



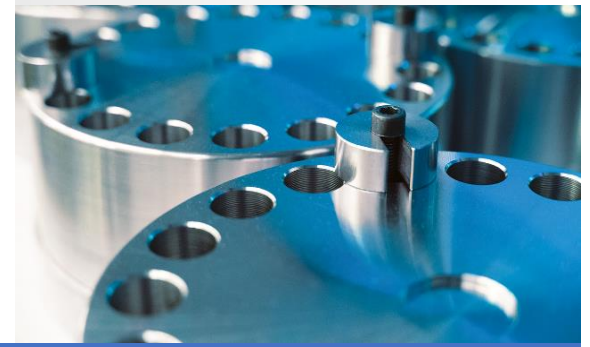
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CELLS FILLING



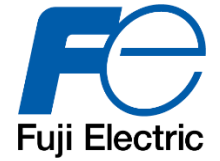
6

CALIBRATION BENCHES



Pressure manufacturing

France



CLERMONT-FERRAND

- Assembly workshop
- Assembly and test workshop
- Offices
- Warehouse, reception, shipment
- Clean room
- Class 10 000 Clean room
- TIG & Plasma welding machines
- Helium leak detectors
- Leak test benches
- Test benches for very high static pressure
- Vacuum filling benches
- Pressure and current calibration benches
- Capacity meter
- Climatic chambers



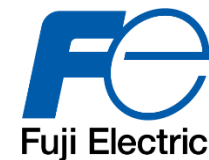
COURNON D'AUVERGNE

- CNC lathe and machining centre
- Milling machine, drilling machine, tapping machine
- Die sinking electro erosion machines
- Washing machine
- Dimensional metrology
- Degreasing machine
- Drilling bench



Instrumentation product range

Fuji Electric France / Measurement



PRESSURE

Measure pressure,
flow, level or density

Differential, gauge and absolute pressure transmitters
Hydrostatic level measurement
Primary element flow measurement
Remote seal



FLOWMETER

Measure fluid flowrate

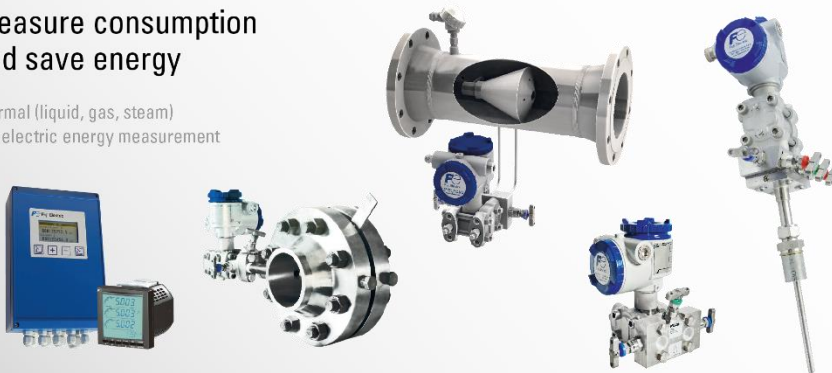
Electromagnetic and ultrasonic flowmeters



ENERGY METERING

Measure consumption
and save energy

Thermal (liquid, gas, steam)
and electric energy measurement



RADIATION MONITORING

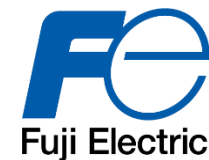
Assure
workers safety

Neutron survey meter
Electronic personal dosimeters
Portable X-ray inspection system



Instrumentation product range

Fuji Electric France / Measurement



CONTROL & ACQUISITION

Upgrade your manufacturing processes

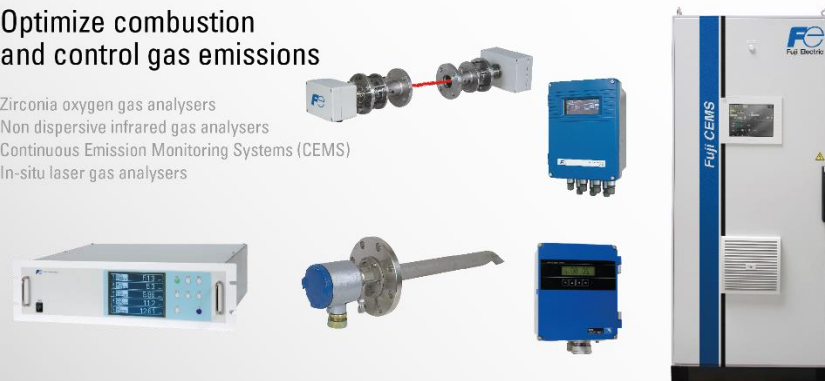
- Temperature sensors
- Signal convertors
- Paper or video recorders
- Temperature and process control
- Touch screen display (HMI)



GAS ANALYSIS

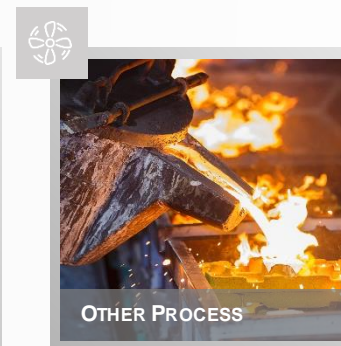
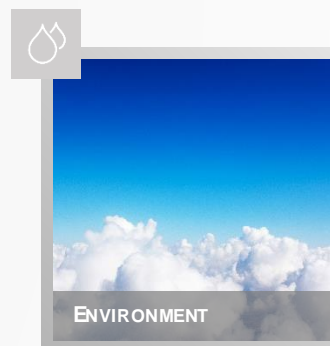
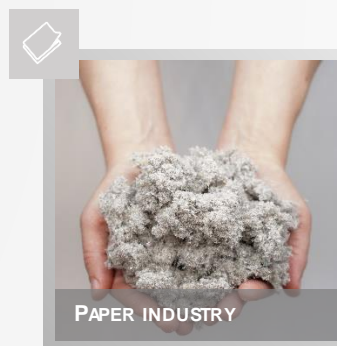
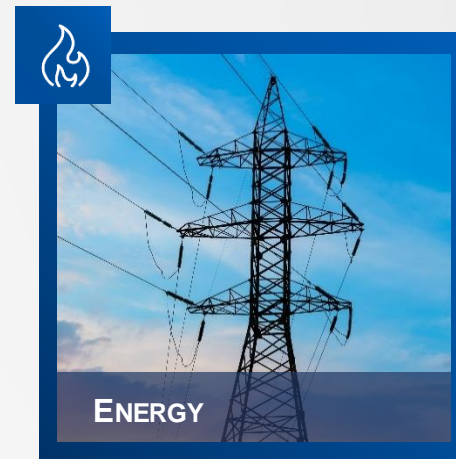
Optimize combustion and control gas emissions

- Zirconia oxygen gas analysers
- Non dispersive infrared gas analysers
- Continuous Emission Monitoring Systems (CEMS)
- In-situ laser gas analysers



Main target

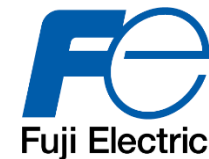
Fuji Electric France / Applications





Oil & Gas

Fuji Electric France / Expertise



Since 1996, FUJI ELECTRIC France has designed and manufactured high static differential pressure transmitters for specific topside and subsea applications

HIGH PRESSURE

RELIABILITY

TOPSIDE & SUBSEA

FUJI ELECTRIC TECHNOLOGY

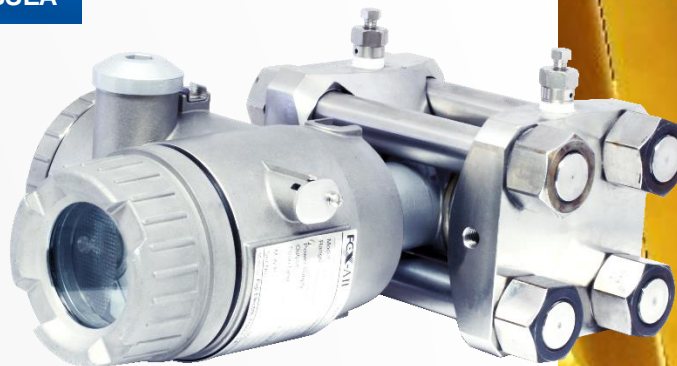
Based on the high performance micro capacitance floating silicon sensor

FLOW MEASUREMENT FOR HIGH STATIC PRESSURE

7500Psi (517 bar),
10 000Psi (690bar),
15 000Psi (1035bar)
and newly up to 20 000Psi (1380bar).

TOPSIDE AND SUBSEA APPLICATIONS

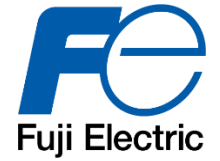
Up to 3500 meters depth





Nuclear

Fuji Electric France / Expertise



FUJI ELECTRIC France pressure transmitters
Suitable for nuclear power plant applications.

RELIABILITY

ACCURACY

SEISMIC-RESISTANT

RADIATION-RESISTANCE

ABSOLUTE, GAUGE PRESSURE OR DIFFERENTIAL PRESSURE WITH OR WITHOUT SEALS

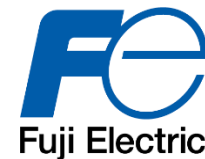
- Smart transmitters K3 and K3ad (remote seal) classified according to RRC-E to be used on IFS 1E of *nuclear plants* and F1A for EPR
- Analog transmitters K3ad for severe environment classified according to RRC-E (on-going) & IEEE-323





Chemical & Petrochemical

Fuji Electric France / Home-made technology



Since 1996, FUJI ELECTRIC France has designed and manufactured remote seal pressure transmitters for chemical & petrochemical application

HIGH DURABILITY MATERIAL

SAFETY

FAST RESPONSE TIME

FCX-AII VG PRESSURE TRANSMITTERS WITH SIL2 AND SIL3 SAFETY FUNCTIONS

The Most Efficient Safe Failure Fraction On The Market Place.

The powerful electronics enable a global fast response time of 80 ms.

Home-made remote seals with large choice of material

(SS, Hast C, Gold, Tantalum, Titanium, Monel...)



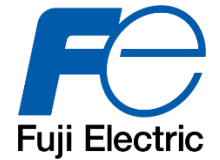
OPTIMIZE YOUR MAINTENANCE COST AND OPERATIONS BY DEFINING A PROOF TEST INTERVAL IN ACCORDANCE WITH THE DESIRED SAFETY AND INTEGRITY LEVEL





Energy recovery

Fuji Electric France | Expertise



Reduce energy consumption, to measure, optimize and invoice the energy produced or consumed via the air, gas, water, steam, fuel and electricity networks.

ENERGY, OPTIMISATION AND EFFICIENCY

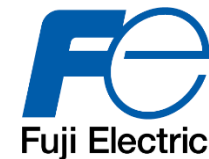
- Energy measurement for waste incineration plants, power plants and district heating
- Turnkey solution including design, electrical wiring, piping and installation
- Energy Management System





Environment

Fuji Electric France | Turnkey solutions



Reliable gas solution for gas analysis
proven know-how and state-of-the-art technology

EMISSION
MONITORING

COMBUSTION
CONTROL

PROCESS
OPTIMISATION

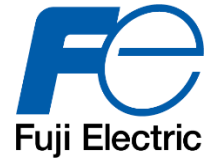
- Continuous Emission Monitoring System (CEMS)
- Industrial boilers
- Waste incineration plants
- Metal Industry
- Biogas waste to energy plants





Water

Fuji Electric France | Process optimization



**Reduce your water consumption & your production cost.
Detect and stop the leaks. Line balancing and efficiency.
optimization. Collect, analyze, and optimize.**

EASY INSTALLATION

PROCESS OPTIMIZATION

ENERGY BALANCE

Clamp-on ultrasonic flowmeter & EMF for liquid

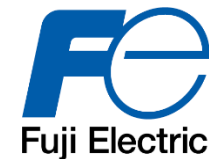
- Make your network sectorized analysis and reveal high consumption areas
- Easy and low-cost installation
- Maintenance free
- Measurement data you can trust
- Maximum flexibility and wide range of applications
- Built to last in harsh industrial environments





Food & Pharmaceutical

Fuji Electric France / Quality



Optimize your food & beverage, pharmaceutical and cosmetic applications with Fuji Electric France solutions that guarantee safety and reliability for your measurements

HYGIENIC

SECURE

CONFORMITY

Pressure and flow measurement

- Wide range of process connections is available for applications in sterile environments (DIN11851 (food connectors), DIN32676 (Clamp connectors), DIN11864, NEUMO®, VARIVENT®).
- Design, materials compliant with international EHEDG (European Hygienic Engineering & Design Group), 3A, FDA (Food and Drug Administration), ASME-BPE and ATEX (directive 94/9/CE) hygiene standards



Solutions

A team with multiple and complementary skills

CO-ENGINEERING

- R&D center
- Design
- Project management
- Development
- Production
- Quality

INDUSTRIAL SOLUTIONS

- Software & Automation applications
- HMI and PLC programs
- SCADA systems, remote management and M2M
- Control cabinets, test benches, gas analysis cabinets, energy measurement systems...



Services

An experienced technicians team



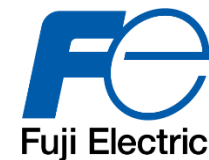
THE FUJI ELECTRIC TEAM GUARANTEES

- System solutions engineering
- On-site service
- Service centers
- Training



Agreement and certifications

Fuji Electric France guarantees



QUALITY AND ENVIRONMENT



FUJI ELECTRIC FRANCE GUARANTEES THE QUALITY AND VALUE OF ITS PRODUCTS THROUGH COMPLIANCE WITH RIGOROUS STANDARDS SPECIFIC TO EACH COUNTRY

QUALITY MANAGEMENT | ISO 9001 : 2015
Quality Management Systems (certificate N°1997/8402)

ENVIRONMENTAL CARE | ISO 14 001 : 2015
Step-by-step Management Systems (certificate N°2014/59264)



ACCREDITATIONS



GOST



PRODUCT COMPLIANCE

UE | Europe
RoHS2 | Europe
GOST | Russia



PRODUCT TRACEABILITY

Compliance
ISO 15156-3
NACE MR0175
Oil & Gas applications
Worldwide



EXPLOSIVES ATMOSPHERES

ATEX | Europe
IECEx | Worldwide
cCSAus | Canada
FM | USA



ENVIRONMENTAL REGULATION

TÜV and MCERTS
QAL1 EN14181

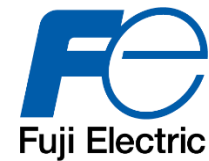


PRODUCT SAFETY

K3-A / 1E | Nuclear EDF (French electricity)
SIL2 SIL3 | Safety Security Level for transmitters electronic systems and spare parts | Worldwide
PED | Pressure Equipment Directive Europe DNV-GL Marine type approval FCX-AIII (All v5) et FCX-AII

Our customers

Fuji Electric France



Thanks you

for your attention

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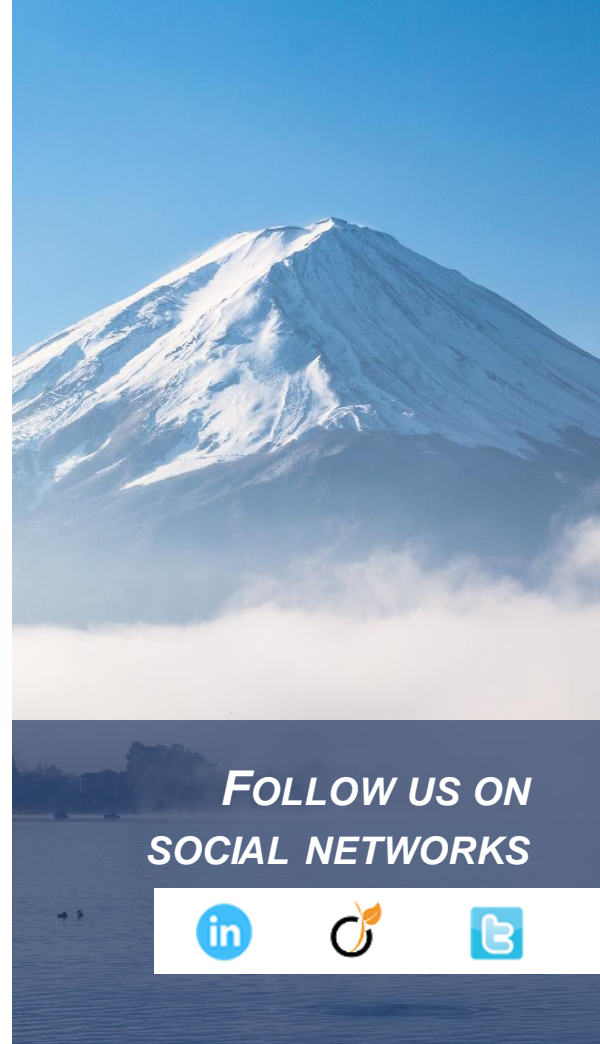
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