Fuji Electric

*Innovating Energy Technology*

# Instrumentation for the nuclear industry

## Pressure, level, flow, gas analysis and radiation protection



**Fuji Electric France S.A.S.**

FEF-NUCLEAR-EN-a

# Reliable solutions

## for your nuclear facilities

**Fuji Electric France** offers reliable, certified instrumentation solutions for nuclear applications. Our measuring instruments are used in power plants under construction, as well as in facilities undergoing refurbishment, decommissioning projects and nuclear research programmes.

Designed to operate in the most demanding environments, they contribute to **ensuring the safety**, operational continuity and regulatory compliance of these facilities.

Our nuclear experts provide dedicated **technical support** and full traceability to meet the sector's most stringent requirements.



## Nuclear pressure transmitter
## Smart, innovative and built to last

- **Quality excellence and traceability**
  Manufactured in France under strict quality control.
  Quality management system certified to ISO 19443.
- **Long-term reliability**
  Stability, accuracy and performance ensured, even under extreme conditions.
- **Quick and secure installation**
  Fast and secure electrical connections.
- **Extreme durability**
  RCC-E seismic qualification up to 35 g.
- **Robust design**
  ANFL-certified to IEC 62671, high reliability.
- **Suitable for all your processes**
  Wide range of connection options and materials.

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Absolute pressure transmitter
with diaphragm seal

FKM - NC - K3



Differential pressure transmitter
with diaphragm seal

FKD - NC - K3

Differential pressure transmitter
Analogue version

FYD - K3-ad



Absolute pressure transmitter

FKA - NC - K3

Absolute pressure transmitter
Analogue version

FYA - K3-ad



Gauge pressure transmitter
with diaphragm seal

FKB - NC - K3

Gauge pressure transmitter with
diaphragm seal - Analogue version

FYB - K3-ad



Differential
pressure transmitter

FKC - NC - K3

Differential pressure transmitter
Analogue version

FYC - K3-ad



Gauge
pressure transmitter

FKG - NC - K3

Gauge pressure transmitter
Analogue version

FYG - K3-ad



High-pressure
gauge transmitter

FKR - NC - K3

# Pressure

**Measuring pressure, flow, level or density.**

Differential, gauge and absolute pressure transmitters
Pressure transmitters with diaphragm seals and capillaries
Level measurement by hydrostatic pressure
Flow measurement by ΔP across a primary flow element

# Accessories



Nuclear-grade
electrical connectors



2, 3 or 5 way
manifolds



Local digital
indicator



Mounting bracket

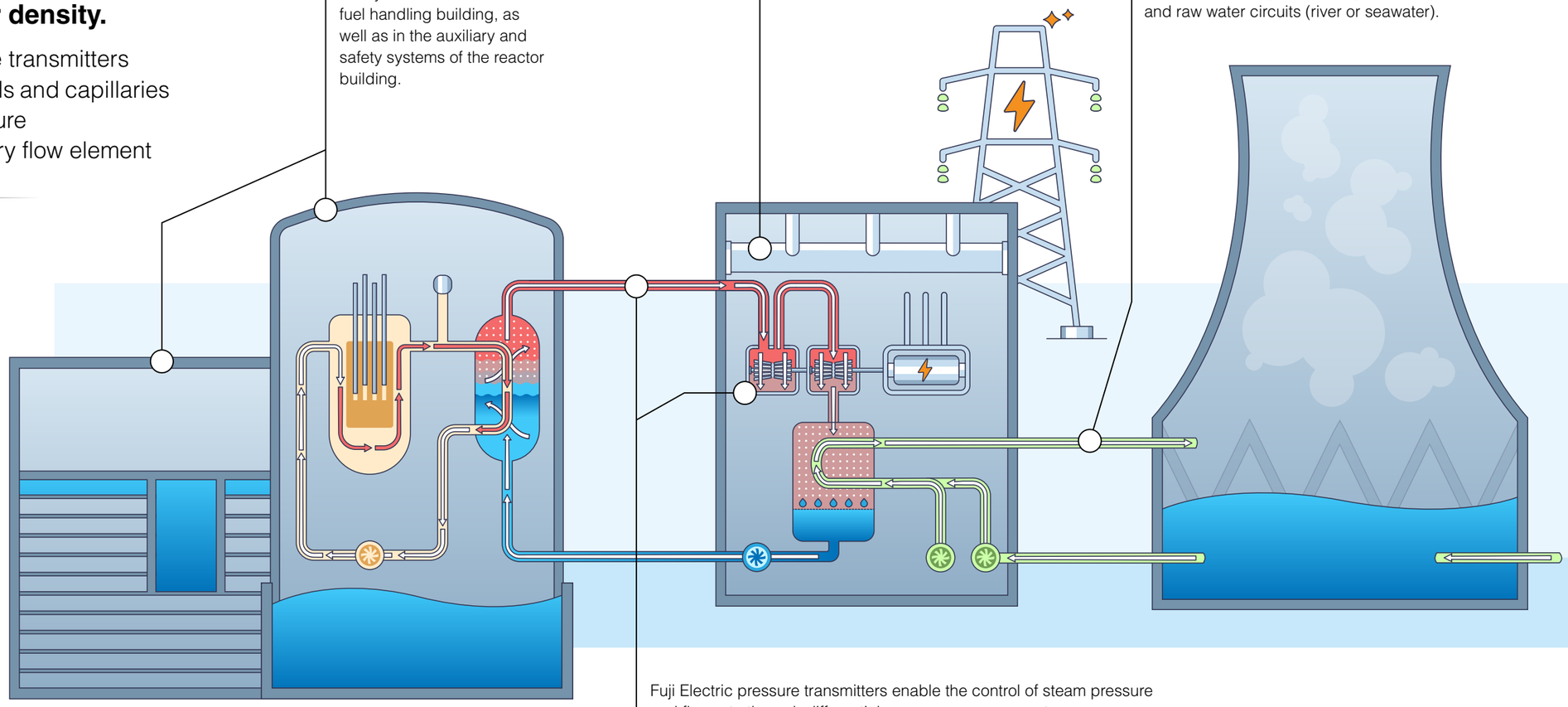


HP/LP process
connection
switching device

Fuji Electric pressure transmitters contribute to safety functions within the fuel handling building, as well as in the auxiliary and safety systems of the reactor building.

Fuji Electric pressure transmitters for very low-pressure applications deliver reliable and accurate measurements.

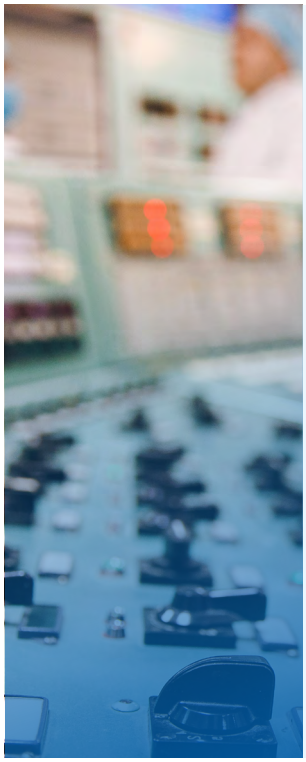
Fuji Electric pressure transmitters are used for level measurement by hydrostatic pressure and for monitoring filter fouling in cooling water and raw water circuits (river or seawater).



Fuji Electric pressure transmitters enable the control of steam pressure and flow rate through differential pressure measurement.

# Reliable, qualified nuclear pressure transmitters

## A certified solution meeting nuclear industry standards



A **transmitter qualified** for nuclear applications contributes to compliance with safety requirements through its conformity with RCC-E (NC) and its K3 / K3-ad qualifications, including seismic qualification (TAS).

Designed to remain operational under **accident conditions**, it is compatible with the most demanding environmental conditions and thermodynamic profiles. Its seismic qualification, **full traceability** and manufacture in accordance with industry quality standards make it a reliable and durable solution.

The associated documentation and adherence to project schedules contribute to effective project execution, as well as to the **availability** and **performance** of your facilities throughout their lifecycle.

## 100% Analogue technology

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- **Availability and operational continuity**
  Designed to operate in harsh environments.
- **Radiation qualification**
  TID 50 kGy, integrity up to 65 kGy.
- **Seismic resilience**
  RCC-E component spectrum up to 35 g.
- **Intrinsic safety**
  Enhanced cybersecurity,
  no programmable electronics.
- **Continuous performance under accident conditions**
  K3-ad certified.
  LOCA, high temperatures, seismic conditions and radiation.



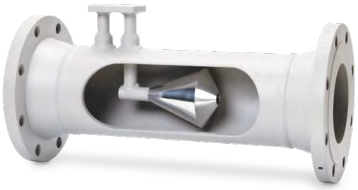
# Flow meter

**Measure fluid flowrate.**

Ultrasonic flow meters for air, liquids and steam
Primary flow elements



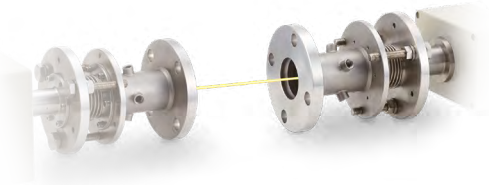



# Gas analysis

**Optimising industrial processes.**
**Controlling combustion and atmospheric emissions.**

Continuous Emission Monitoring Systems (CEMS)
Oxygen gas analysers ($O_2$)
Infrared multi-gas analysers
Laser gas analysers
Hydrogen ($H_2$) and Helium gas analysers (He)






# Radiation monitoring

**Ensure worker safety.**

Neutron survey meters
Electronic personal dosimeters





# Services

## Maintenance, commissioning and calibration services




We support you with the **calibration** and maintenance of your measuring instruments to ensure their long-term performance.

Our team of experts works with you to develop a **bespoke maintenance plan** tailored to your operational constraints and requirements.

We ensure that your instruments remain accurate, reliable and available throughout their **lifecycle**.

With this support, you can minimise operational risks, optimise your processes and sustainably improve the **overall performance** of your facilities.

# Quality

## Certifications & qualifications

The quality of our products is built on adherence to strict standards, in compliance with the regulations in force in each country.

We are committed to continuous improvement through an integrated management system that meets the requirements of **ISO 9001** and **ISO 14001**.

**Quality certification:**
**ISO 9001:2015**
Quality Management Systems
(Certificate No. 1997/8402)

**Environmental certification:**
**ISO 14001:2015**
Environmental Management Systems
(Certificate No. 2014/59264)

**Safety**
SIL2 / SIL3 (IEC 61508 & IEC 61511) DDLF-certified to IEC 62671

**Product compliance**
EU - UKCA

**Qualification EDF**
RCC-E ed. 2019 - NC, TAS, K3-A, K3-ad

**Nuclear**
K3-A/1E and K3-ad/1E

**Environmental Measures**
TÜV / MCERTS QAL1 EN 14181

**Qualification FRAMATOME**
QN100 / QN200 / QN300

**Hazardous areas**
ATEX - IECEx - cCSAus



# Fuji Electric France

## Specialists in instrumentation, radiation monitoring and gas analysis

At **Fuji Electric France**, we combine innovation and technological expertise to develop sustainable solutions that address today's energy and environmental challenges. Our technologies help enhance the safety, reliability and regulatory compliance of the most demanding industrial facilities.

**Our mission: To support industries in producing cleaner energy, improving energy efficiency and protecting the environment for a sustainable future.**

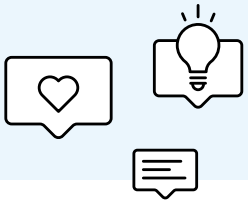
By placing **excellence and innovation** at the heart of our approach, we design high-performance, bespoke solutions tailored to our clients' needs. Together, we tackle today's industrial challenges and build a **more responsible** and **sustainable future**.

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# Get more information

### Connect with us on social media!

Expert advice, industry news,
upcoming events, tutorials, tips & more.



YouTube

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### Discover our full range of measuring instruments and gas analysis solutions.

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*Print: 04 / 2026*

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