



NUCLEAR EXPERTISE INSTRUMENTATION & CONTROL OVERVIEW

CMR»
an Amphenol company



KEY FIGURES

CMR is your qualified and long-term partner to deliver instrumentation systems and control solutions dedicated to new and retrofit nuclear power plants.

For these applications, CMR designs & develops a qualified range of temperature sensors, automation and monitoring systems, ensuring the reliable and safe operation of nuclear power plant facilities.

Designed in compliance with nuclear requirements, our equipment can operate under failure conditions in compliance with the nuclear power plant lifetime.

CMR has been supplying nuclear temperature sensors, thermowells, transmitters and monitoring systems in more than 100 NPP since the 1980s. CMR is now recognized as a global leader in the Nuclear industry.



**+100 NPP
INSTALLATIONS**



**11
COUNTRIES
WORLDWIDE**



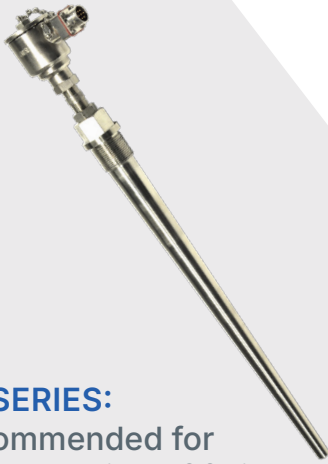
**+100 M€
REVENUE**



**+1000
EMPLOYEES**



**1959
SET UP**



AN SERIES:

Recommended for the measuring of fluid temperature under pressure mounted in thermowell

- RTD 4-wires (or 2 x 4-wires)
- Or, Thermocouple K type simplex or duplex
- Measuring range: 0-400°C
- Classification: AIP-NC, K3 & K3ad according to RCC-E 2012



CTP SERIES:

Recommended for the measuring of surface temperature

- RTD 4-wires (or 2 x 4-wires)
- Or, Thermocouple K type simplex or duplex
- Measuring range: 0-400°C
- Classification: AIP-NC



AMB SERIES:

Recommended for the measuring of Air temperature on HVAC system or ventilation duct

- RTD 4-wires (or 2 x 4-wires)
- Measuring range: -35°C/+120°C
- Classification: AIP-NC, K3 & K3ad according to RCC-E 2012

INSTRUMENTATION AND CONTROL OVERVIEW:

CMR offers a wide range of custom and standard high-performance temperature sensors and accessories for safety-critical and Nuclear environment. We perform the engineering development, manufacturing, qualification and the supply chain management to provide you a high level of services.



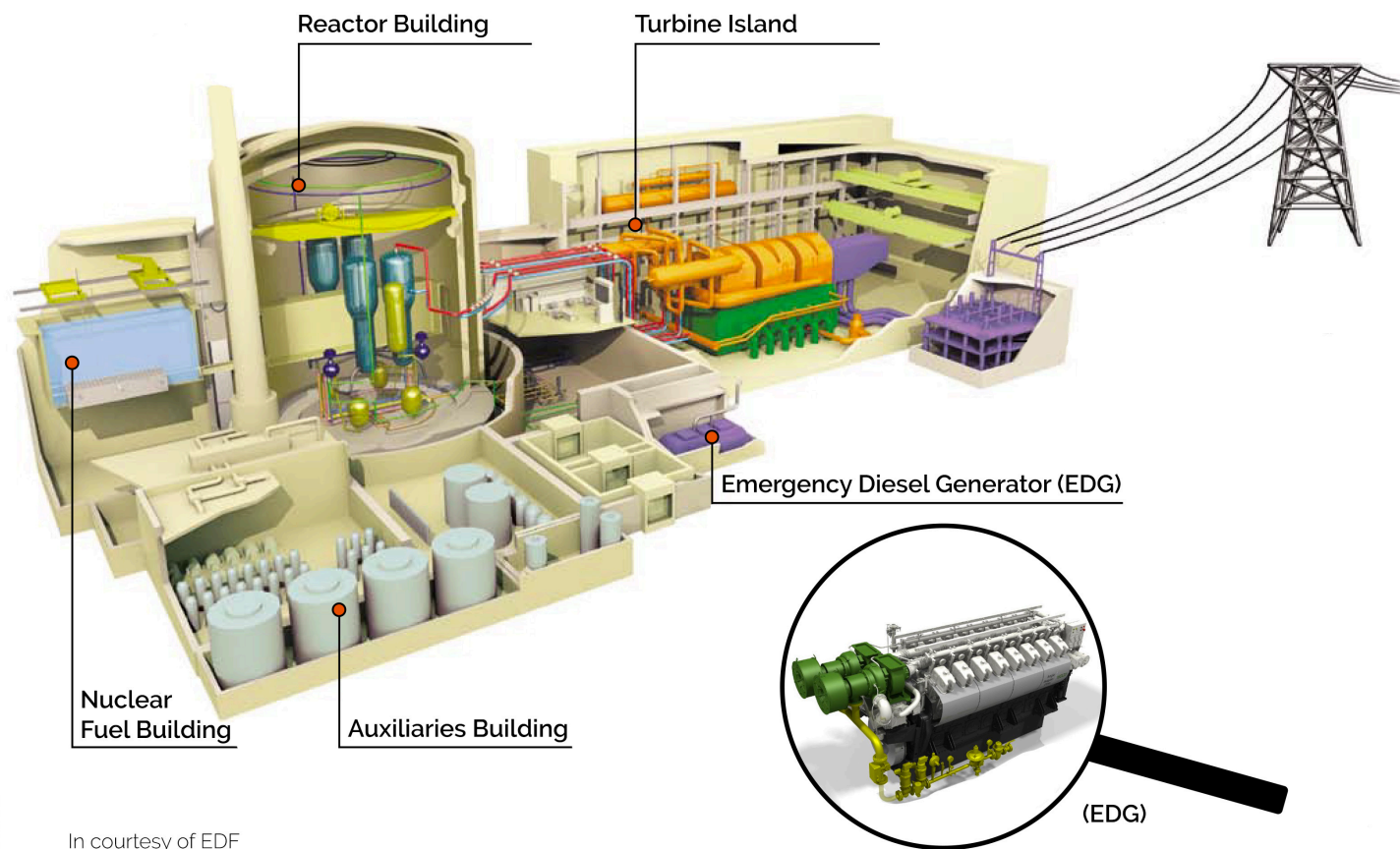
BC/BS SERIES:

- Recommended for the measuring of bearing temperature on rotating machine
- RTD 4-wires (or 2 × 4-wires)
 - Or, Thermocouple K type simplex or duplex
 - Measuring range: 0-200°C
 - Classification: AIP-NC, K3 & K3ad according to RCC-E 2012



NUCLEAR POWERPLANT

DETAILED OVERVIEW, WITHOUT AIR COOLER



EDF02/09

In courtesy of EDF

**MONITORING
UNITS TOTALLY
CONFIGURABLE**

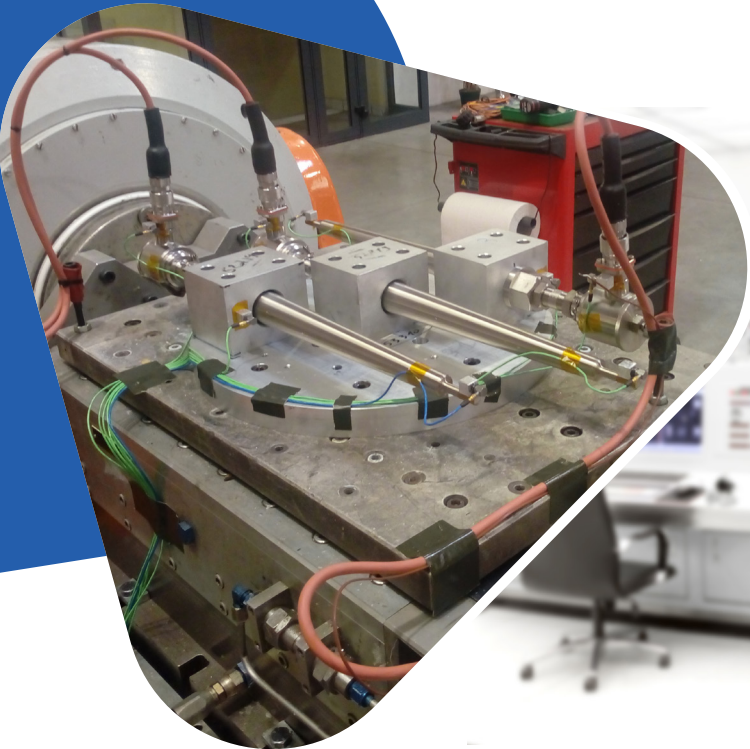
Designed for the nuclear environment, our S128NG & S129NG monitoring units are the simplest way to perform efficient monitoring of Emergency Diesel Generators parameters (EDG)

- ✓ EDG MAINTENANCE PROGRAM CAN BE SCHEDULED
- ✓ EDG SERIOUS DAMAGES CAN BE AVOIDED
- ✓ EDG CAN BE MAINTAINED TO ITS OPTIMUM PERFORMANCES



Modular construction based on racks (19 inch)
Custom made according to EDF specifications, our 425NG monitoring systems are designed without any integrated software.

YOUR QUALIFIED PARTNER FOR NUCLEAR POWER PLANTS



SPECIALIZED IN NUCLEAR POWER PLANT APPLICATIONS, CMR IS ALSO RECOGNIZED AND CERTIFIED BY ITS CUSTOMERS FOR ITS ENGINEERING.

Our qualified skills include the following expertise

- ✓ Electricity
- ✓ Automation & Control Command
- ✓ Instrumentation including nuclear-qualified sensors for accidental conditions
- ✓ Data Acquisition, Monitoring & Supervision
- ✓ System Integration
- ✓ Communication Network
- ✓ On-site intervention

In addition to our know-how, CMR is committed to provide its best possible services with only one target: **the proper completion of your project including:**

- ✓ Supply chain
- ✓ Quality management adapted to nuclear requirements
- ✓ Scheduling
- ✓ Project Management & Customer transparency
- ✓ Nuclear Safety Culture
- ✓ Installation, Commissioning & Technical Support