

TEMPERATURE SENSOR IN THERMOWELL FOR PRESSURIZER

DT108-P

For measuring the temperatures
of the liquid and gaseous phases
inside the pressurizer

- High measurement accuracy
- **Qualified as K1 and K2** according to RCC-E
- Reliable measurements over time
- Measurement continuity in post-accident conditions



Nuclear



■ Operation

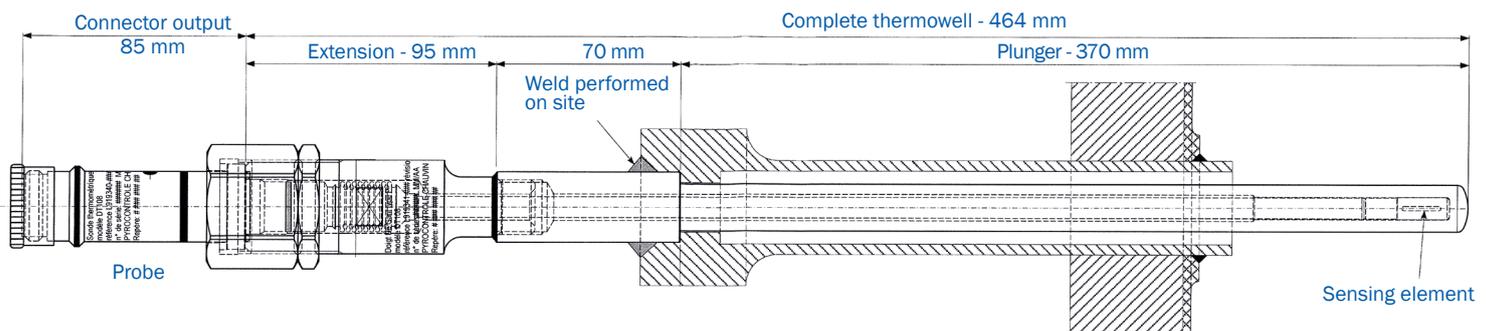
Mounted in a thermowell inside the pressurizer, the DT108-P provides accurate temperature measurement by immersion in the liquid and gaseous phases.

Two other versions of the DT108 are also available: a tapered thermowell model and a boss-mounted model (surface measurement). Please contact us for further details.

■ Technical specifications

Temperature range	0 / + 400 °C
Qualification	K1 as per RCC-E or K2 as per RCC-E for EPR™ application
Response time	Approximately 30 s at 63% in water flowing at 1 m/s
Measuring element	Pt100, 4-wire mounting - ceramic sheath
Measurement current	Max. current < 3mA to retain the required measurement accuracy Max. value without destruction: 40 mA for 3 min
Measurement accuracy	Sensor compliant with Class B of the IEC 751 standard
Electrical isolation	Ri = 100 MΩ with 100 VDC at 20 °C Ri = 1 MΩ with 100 VDC at 400 °C
Electrical connection	Round hermetic SOURIAU 8NA1Y1212PN00SA connector socket for welding
Thermowell	Composition: austenitic stainless steel Immersion depth: 300 mm

■ Design drawing



■ To order

Thermowell (Extension + Plunger)		Probe	
Weight	Ref.	Weight	Ref.
1 180 g	L919343-001	700 g	L919340-003

■ Certifications

Pyrocontrole is **ISO 9001** -certified for management through Quality and **ISO 14001** -certified for environmental impact control. For its equipment for the Chinese civilian nuclear industry, Pyrocontrole benefits from **HAF 604** certification.

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