



Calibrated Safety Devices

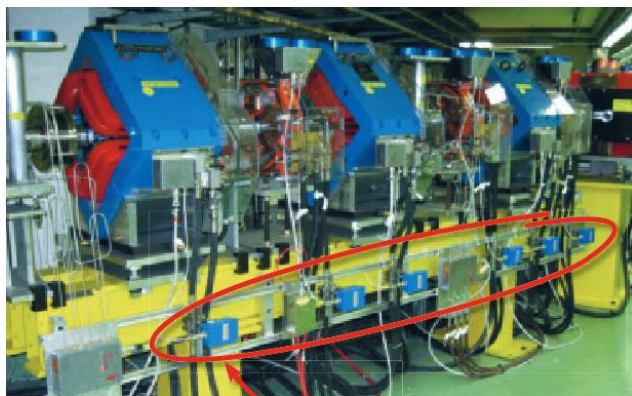
In Particle Accelerators since 50 years

Eletta Flow Monitors and Meters from Sweden have been used in the particle accelerator laboratories for both medical and research purposes and related industry worldwide since decades.

With a reliable and safe duty in protecting magnets from overheating by supervising the cooling water system, the Eletta Flow Monitors have served their purpose from the start in the early 70's. We have installations which are over 30 years old and still work perfectly well, without any maintenance or re-calibration. The flexible mounting of the instruments helps to avoid unnecessary problems during installation

The flow monitors shut the system down in case of a sudden interruption of the water flow. Due to its simple and robust design the reliability is undoubtedly extremely high for these calibrated safety devices. The response time for an alarm from the instruments can be calculated in microseconds and can thereby very quickly secure expensive equipment in the event of a fault in the system. Eletta's products have some unique characteristics which make them extremely well suited for applications in particle accelerators and other sensitive environments:

- **Inensitive to magnetic fields.** Some of our products are entirely mechanical and are equipped with microswitches which are used for the alarm function. Also they have no reed switches or galvanometers which can be affected by magnetic radiation.
- **Resistant to local radiation.** No components are made of sensitive material.
- **No moving parts.** All flow monitors and -meters are built according to the differential pressure principle using an orifice plate.
- **Resistant to additives in the water.** The design combined with special materials such as canigen plating or stainless steel make them very durable.



CERN, France. Magnets that are under high voltage focus the particle beams. Eletta flow Monitors control the cooling circuits.

Example of installations:

- ALBA, Spain
- ANKA, Germany
- BERC, China
- BESSY, Germany
- CEA Saclay, France
- CERN, Switzerland
- CLS, Canada
- DIAMOND LIGHT, United Kingdom
- DESY, Germany
- DLS, United Kingdom
- ESRF, France
- ESS, Sweden
- FAIR, Germany
- GANIL, France
- Garching, Germany
- Greifswald, Germany
- GSI, Germany
- IKP, Germany
- JYVÄSKYLA Lab, Finland
- Jülich Forschungszentrum, Germany
- KVI, The Netherlands
- Laboratoire National d'Argonne, France
- MEDAUSTRON, Austria
- NSRRC, Taiwan
- PSI, Switzerland
- Soleil, France
- SVEDBERG Lab, Sweden
- Trieste Scpa, Italy
- University of Jyväskylä Accelerator lab., Finland



The S-series



The M-series



The V-series