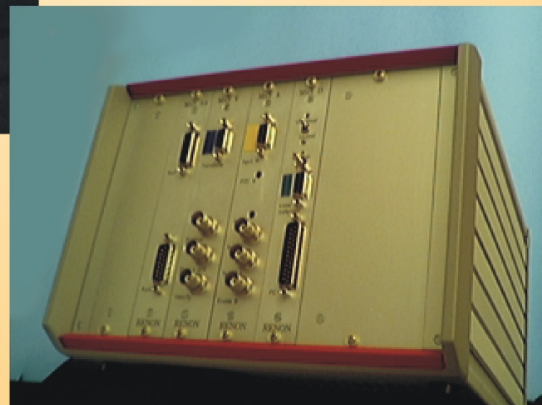
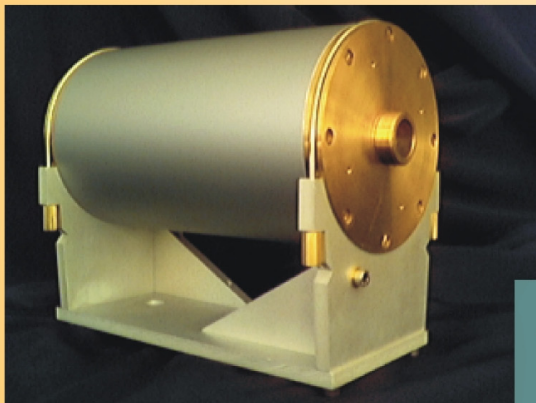
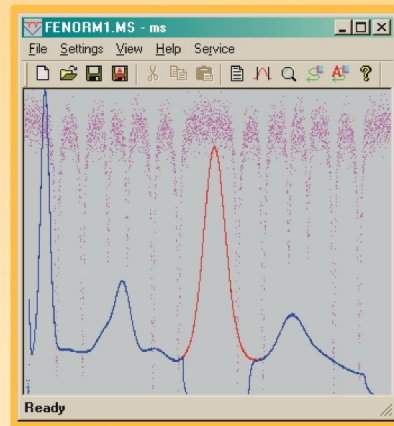
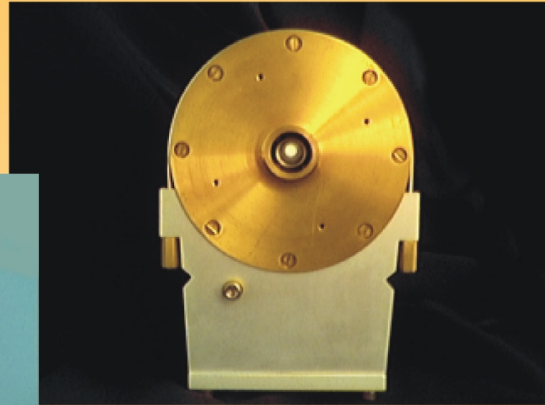


RENON



Mössbauer
spectrometer

TCP / IP

Complete high quality Mössbauer spectrometer MsAa-3



- ◆ Two types of standard detector heads (proportional and scintillation detector) with the integrated pre-amplifier and high voltage power supply remotely controlled via the computer.
- ◆ Additional signal input from typical custom pre-amplifiers and additional input from the external single channel analyzers.
- ◆ Four spectra collected simultaneously: two Mössbauer spectra and a γ -ray spectrum (collected simultaneously in the coincidence and anti-coincidence mode with the single channel analyzer window). One of the Mössbauer spectra could be replaced by the laser velocity calibration data. All four spectra are collected in 4096 channels having 32-bit capacity each.
- ◆ Robust and high precision transducer with non-linearity well below 0.1 %. It is equipped with the central clear bore tube, and a system to set up and maintain desired average position of the source. It could be operated either vertically or horizontally.
- ◆ Down-loadable velocity reference function generated by means of the software in 8192 points. Velocity digital to analog converter has 12-bit precision and it could be operated in the wide range of the repetition frequency (from a fraction till 60 Hz).
- ◆ High precision laser velocity calibration unit, having very low sensitivity to the external vibrations. The transducer clear bore allows for a laser beam to be delivered to the moving corner-prism mounted directly behind the source.
- ◆ Low voltage power supply, buffered by the high capacity rechargeable maintenance free battery allowing for several hours of uninterrupted operation since the power failure.
- ◆ All settings (except manual tuning of the PZC circuit for the detector head) are available from the software panel of the controlling computer. They could be stored on the computer disk and reloaded assuring stable conditions of operation.
- ◆ Communication with the external world is performed via the Ethernet-Tx TCP/IP link. Hence, the spectrometer could be set as the stand-alone entity in the Internet.
- ◆ Versatile thermometric unit with the simple temperature controller being able to control basic functions of the spectrometer.
- ◆ Data evaluation software Mosgraf allowing to process almost any Mössbauer spectrum of any resonant transition.

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