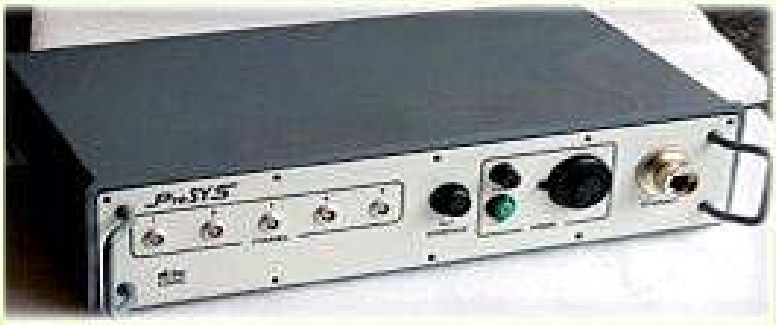
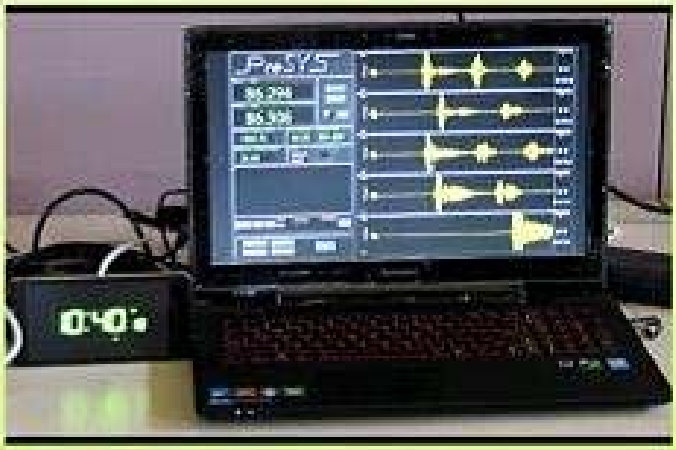
PreSYS

Ultrasonic Precision Distance Measurement System

PreSYS, the ultrasonic based diameter measuring system is used to measure the diameter of pipe structures with high precision better than 10µm (in water). The system finds application in measuring precisely the diameter of heat-resistant composite alloy pipes employed in nuclear power plants



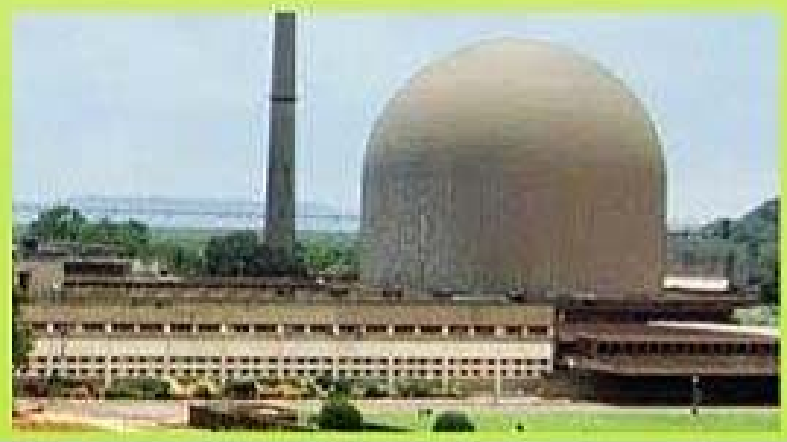


Major Features

- High Precision & Resolution - <10µm
- Non invasive - Ultrasonic transducer based measurement
- No limitation for minimum distance measurement
- Sub sample accurate TOF measurement
- Real time velocity calibration
- DSP based hardware
- IP67 rated transceiver module & transducer Assy
- Simple and user friendly GUI etc

Application Areas

- Diameter measurement of composite alloy pipes in nuclear power plants
- High precision liquid level sensing
- Replacement for contact based high precision measuring instruments
- Precise machinery control in industries
- Corrosion mapping
- Biomedical imaging etc



STRATEGIC ELECTRONICS GROUP
CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING
Vellayambalam,Thiruvananthapuram 695 033, INDIA
Phone: 91-471-272 3333, Fax: 91-471-272 3456
email: seg@cdac.in