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Product Name :
Boiler control Demonstration and Fault Simulation Unit

Product Code :
LBNY-0005-12800014



Description :

The operation of these level sensing devices can readily be investigated since they may be removed from the Demonstration Unit, dismantled and re-assembled, without the attendant problems which would occur on an operational boiler. The simulated boiler itself is constructed from a clear acrylic tank and thus the demonstration unit provides a clear visual appreciation of the operating characteristics of the various level controls i.e. float operated magnetic, reed or electronic system using electrode sensors. An arrangement of up to date integrated circuits is used to simulate boiler pressure and burner control together with the sensing and control systems associated with modern boiler systems. A Boiler Water Gauge is fitted to the Boiler Drum so that possible misuse of this item can be demonstrated clearly and safely. This Gauge can also be used to demonstrate the method of changing a sight glass for such a gauge under simulated working conditions, a circumstance which can be safely taught on this Demonstration Unit. These systems would not normally all be fitted in the same boiler but are included in this unit to give the student an appreciation of the characteristics of each system. Conversion of water from the boiler into steam is simulated so that the level sensors need to operate as in a true Boiler system.

Technical Specification :

Experimental Capability:

Designed to provide demonstration and investigation of:

Safety control operation

Basic boiler mounted indicating and control systems

Automatic operational functioning of an oil/gas fired boiler Predetermined faults imposed on the system

Feedwater pump control by various methods.



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