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**Product Name :**  
Steam Power Plant 20kW with Process Control System

**Product Code :**  
LBNY-0005-1630004



#### **Description :**

Due to the size and complexity of the system, in many aspects the operating behaviour corresponds to that of actual large-scale plants, thereby enabling training that is as close to the real thing as possible. The Steam Power Plant is specifically designed for training purposes in the field of power plant engineering with process control systems. The plant consists of four separate modules and can therefore be flexibly adapted to the space available in the laboratory:

The feed water circuit is equipped with a water treatment system with ion exchangers and chemical dosing. Module A steam generator assembly: a gas/oil-fired once-through steam boiler and a downstream electric super heater generate superheated steam.

#### **Features:**

Plant monitored and controlled via touch screen control station  
Complete steam power plant with process control system based on Ethernet and PLC.

#### **Technical Specification :**

#### **Learning Objectives And Experiments:**

Determining: input and output power, component and system efficiency, specific fuel consumption  
Design and function of a complete steam power plant with control and regulation system  
System control and monitoring via a process control system  
Recording and evaluation of the most important operating parameters  
Start-up, operation, shut down, servicing and maintenance of a steam power plant.



**Laboratory Instrument India**