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Product Name :
Cathodic Protection Trainer

Product Code :
LBNY-0005-11600017



Description :

Cathodic protection techniques are commonly used to protect steel pipelines, structures and storage tanks, ships, oil platforms and structural elements of oil wells. Cathodic protection is a technique used to control the corrosion of a metal surface by making it work as a cathode, coupling it with a less noble metal (sacrificial anode) or with a cathodic power supply. The experiments can be carried out at different temperature and oxygen concentration, using different kinds of reference electrodes and sacrificial anodes as well as various metal samples with or without surface treatment. This trainer enables the study of the cathodic protection with sacrificial anode or impressed current (at constant potential and at constant current). The trainer can be connected to a PC (not supplied) running Windows and a dedicated software for the experiments data acquisition and storage.

Technical Specification :

Wheeled Bench Including:
Waterproof top surface
Locked cabinet
Console with measuring instrument and mains connection (Vac)

Base Current Adjustment
PC interface for data acquisition and storage
Thermostat with Pt100 temperature sensor
Air compressor with sprayer

The Console Includes

2 DC power supplies, potential or constant current mode

2 digital ammeters

4 digital voltmeters

The Cabinet Can Be Used To Store The Following Items:

Cu/CuSO₄ reference electrode

Ag/AgCl reference electrode

Zn reference electrode

Safety glasses and gloves

Handheld digital multimeter

6 copper electrodes.

Power supply: 230 Vac 50 Hz single-phase - 1600 VA

Dimensions: 1280 x 800 x 1350 mm

Weight: 170 kg



Laboratory Instrument India