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Product Name :
Hydraulic Servo System

Product Code :
LBNY-0005-10900010



Description :

Servo systems are closed-loop control systems. In many industrial applications it is often required to convert small mechanical motions into a different motions with increased force. The displacement of the carriage is established using a potentiometric position sensor and compared against the reference variable. The control deviation is processed in a separate servo amplifier. Hydraulic systems are particularly suitable for applications where large actuation forces are required. The unit allows the operation of a hydraulic servo system to be investigated in detail. A carriage with a mass of 50kg is moved by a hydraulic cylinder. Additional springs and an adjustable hydraulic damper permit static and dynamic loads to be simulated. The trainer is a mobile unit. Measuring devices can be housed in the built-under cabinet unit. Depending on the direction of the deviation, a control valve is activated in forward or reverse direction, which in turn produces a corresponding movement of the hydraulic cylinder and the carriage.

Technical Specification :

Self-contained training system of a complete hydraulic position control loop with adjustable loading conditions
Operation of the electromagnetic control valve for position control by proportional amplifier
Oil circuit with hydraulic unit, hydraulic accumulator, 2 manometers, control valve and hydraulic cylinder to move a weighted carriage
All control variables available as voltage signals 0...10V
Proportional amplifier with adjustable gain and recorder.

Laboratory Instrument India

