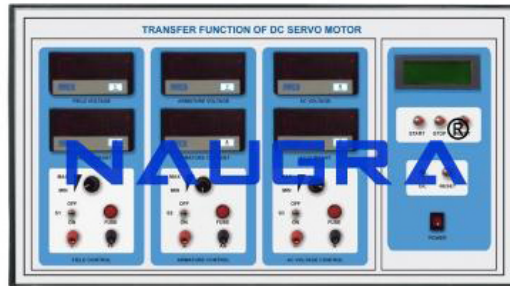


**Product Name :**  
Transfer Function of DC Servo Motor

**Product Code :**  
NLAB-TECHNICALAB16003



**Description :**

Transfer Function of DC Servo Motor

**Technical Specification :**

One no. of 0-50V/3A variable DC source with short circuit , over load protection for armature voltage variation.  
One no. of 0-50v/1A DC variable source<sup>4</sup> with short circuit, over load protection for field section.  
One no. of isolated 0-50V AC/1A variable AC source for motor inductance measurement.  
One no. of DC digital voltmeter (0-50V) provided for armature voltage measurement.  
One no. of DC digital ammeter (0-5A) provided for armature current measurement.  
One no. of (0-50V ) DC digital meter provided for field voltage measurement.  
One no. of (0-2A) DC digital ammeter provided for field current measurement.  
One no. of (0-50V) AC digital voltmeter for AC voltage measurement.  
One no. of (0-5A) AC digital ammeter for AC current measurement.  
One no.20/4LCD of digital stop-clock provided for time & speed measurement.  
Separately Excited DC Servo Motor  
Armature voltage: 0-50V DC, 3 Amp.  
Field voltage: 0-50V DC.  
Shunt type separately excited.  
Speed: 1490 rpm.  
One Proximity sensor provided to sense the speed.  
Double side shot extension with speed indication.  
Mechanical loading arrangement.

Find the armature resistance of DC servomotor.  
Find the armature inductance of DC servomotor.  
Find the field resistance of DC servomotor.  
Find the field inductance of DC servomotor.  
Find the back emf constant of DC servomotor.  
Find the field torque constant of DC servomotor.  
Find the Armature torque constant of DC servomotor.  
Find the moment of inertia of DC servo motor.  
Kit Working voltage(220-240)VAC  
Input Voltage 50V AC  
Input Frequency 50Hz  
Output Voltage 50 DC  
Output Current 3Amps

## Naugralabequipments

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