# **DESK-TOP DYNAMOMETER SYSTEM**



This "Desk Top" Dynamometer is a complete eddy current dynamometer system designed for use in student teaching laboratories. It can be provided with a Honda GX35 4-stroke engine, AC or DC electric motors. The air-cooled eddy current dynamometer requires no external cooling lines, and is easy to install and use. The sophisticated controller can operate the dynamometer from the front panel or from a computer via the remote mode. Control modes include Manual Load, Speed, Torque and Road Load control. Software provided allows logging of speed, torque and load and additional inputs can be used for measuring engine temps and fuel flow, or motor voltage and current. A throttle position controller is included which outputs an analog Throttle Position command. Student laboratory exercises and teaching material are included.

#### **FEATURES**

- ICE Dynamometer weighs only 17kg
- 2kW mechanical power absorption
- ICE, AC and DC motors available
- Motors/Engine can be quickly changed
- Integrated DAQ Input Channels for Logging
- Power is Circuit Breaker Protected
- Free computer software for Graphic Display
- 1 Year Warranty Included



# Laboratory Exercise Manual Included with Labs, Quizzes and sample data

FOCUS APPLIED TECHNOLOGIES SDN BHD, sales@focusappliedtechnologies.com www.focusappliedtechnologies.com

No.34, Jalan Jawi Indah, Taman Jawi Indah Sungai Jawi 14200, Penang Malaysia. Tel: +604 582 2466

# **DESK-TOP DYNAMOMETER SYSTEM**



AC Motor Dynamometer



student



in Universities

and

Theoretical and measured AC Induction Motor Torque Curves

laboratories

# **SPECIFICATIONS**

#### PHYSICAL

Weight: 13, 14, 17kg (DC, AC, ICE) 500 x 160 x 170 mm LxWxH:

### MAINS POWER

Voltage: 120/240VAC Frequency: 50/60Hz Current Draw: 4A max

### CONTROLLER OUTPUT

Controller Power: 200W (50V. 3A)

#### DYNO

Mechanical Power: 2kW max Disk: 200mm diam., 6mm thick Speed: Hall Effect type, 5V excitation 4 pulse per revolution 5V Zero-peak

Load Cell:

10,000 rpm maximum 20Nm, 200 to 500 ohm 4-wire Wheatstone bridge 5 or 10V excitation Baud, Bits, Parity, Stop: 9600, 8, N, 1

## **ENVIRONMENTAL**

Temp:10 to 40° C Operational 0 to 50° C Non-Operational Humidity:5 to 90% Non-condensing Shock/Vibe:<10g



The Desktop Dynamometer is widely used by

Polytechnics. It comes with an extensive library of Laboratory exercises, including sample data,