

6200

OPEN-LOOP DYNAMOMETER CONTROLLER

FEATURES

- Open-Loop Dynamometer Control
- Built-in Pass/Fail Motor Testing Capability
- Interfaces: RS-232 and IEEE-488
- High Speed Data Acquisition: 120 torque and speed points per second via IEEE bus (approx. 60/sec. via RS-232)
- High Quality, Easy-to-Read Vacuum Fluorescent Readout: Displays torque, speed, power and auxiliary values
- Current-Regulated Supply: Provides up to 1 amp output
- Adjustable Torque Units: English, Metric and SI are standard
- Dynamometer Overload Protection
- Internal Data Storage: Up to 100 data points
- Auxiliary ± 5 VDC Analog Input: For additional transducer
- Closed Box Calibration
- Rack Mounting: 19" (482.6 mm) with handles



Fig.1 : 6200 Open-Loop Dynamometer Controller

fluorescent readout, the Model 6200 displays torque, speed and mechanical power values of the motor under test. In place of mechanical power, it can also display auxiliary transducer readings via the ± 5 VDC analog input. These displayed values can be stored internally or output via the RS-232 or IEEE-488 interface.

PASS/FAIL MOTOR TESTING

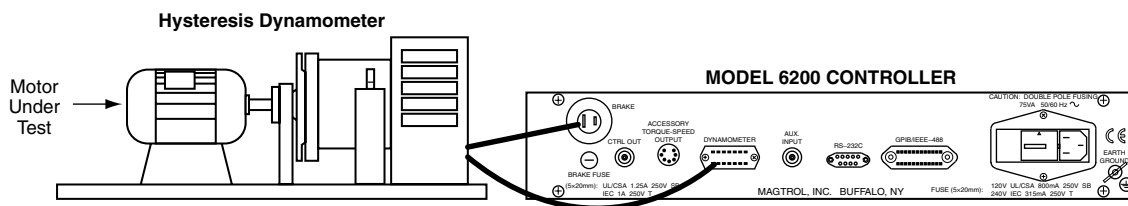
The Model 6200 comes with an easy-to-use motor testing Pass/Fail feature. This feature is ideal for quick pass/fail (go/no go) testing in production and incoming inspection applications.

When the 6200 is operated in the Pass/Fail mode, one of three readings is used as the tested parameter: torque, speed or the auxiliary transducer. The two parameters not used are set with user-defined upper and lower acceptable limits. As the motor is loaded to the tested parameter value (for example, speed), the other two parameters (in this case, torque and transducer) are measured. Test results (for the other 2 parameters) are indicated with a "PASS" or "FAIL", or the display can be toggled to show the actual values.

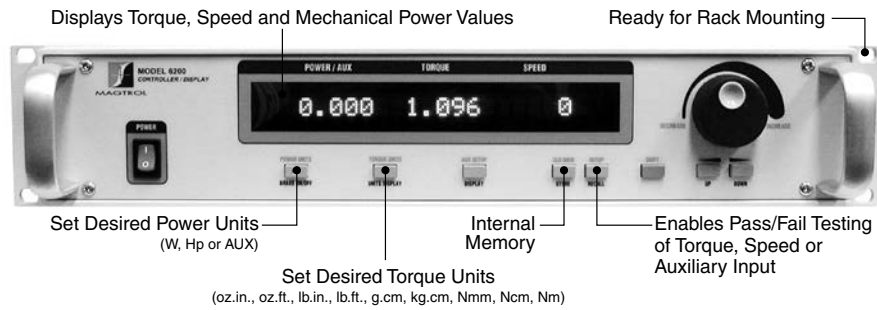
DESCRIPTION

Magtrol's Model 6200 is an Open-Loop Controller designed for use with any Magtrol Hysteresis Dynamometer. The unit provides open-loop control of the dynamometer via an internal current-regulated power supply. With a high-quality vacuum

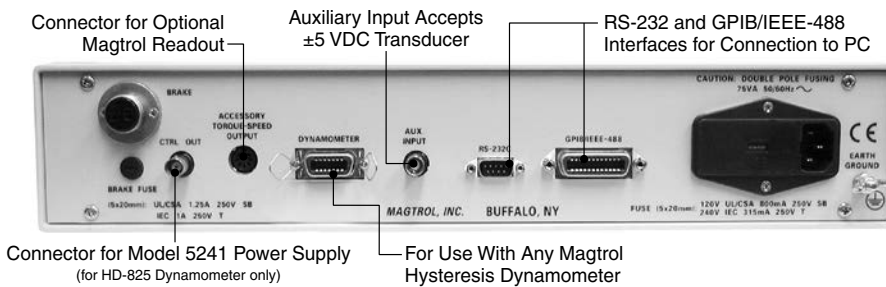
SYSTEM CONFIGURATION



FRONT PANEL



REAR PANEL



SPECIFICATIONS

MEASUREMENT CHARACTERISTICS

Maximum Torque	2000 units
Maximum Speed	99,999 rpm
Accuracy	Speed: 0.01% of reading from 10 rpm to 100,000 rpm Torque: 0.2% of range (± 2 V) Aux: 0.1% of range (± 5 V)

DIMENSIONS

Width	19.0 in	483 mm
Height	3.5 in	89 mm
Depth	12.4 in	315 mm
with handles	13.8 in	351 mm
Weight (max)	16.37 lb	7.42 kg

ELECTRICAL CHARACTERISTICS

Fuses (5 × 20 mm)	Brake:	UL/CSA	1.25	A	250 V	SB
		IEC	1.00	A	250 V	T
	Power (120 V):	UL/CSA	800	mA	250 V	SB
	Power (240 V):	IEC	315	mA	250 V	T
Power Requirements	75 VA					
Voltage Requirements	120/240 V 60/50 Hz					
Max. Compliance Voltage	45 VDC					

Ordering Information

6200 Open-Loop Controller 120 VAC
6200A Open-Loop Controller 240 VAC

INPUTS AND OUTPUTS

Auxiliary Input	± 5 VDC
Accessory Torque/Speed Output	Torque: ± 2 VDC Speed: 60 TTL pulses/rev, 50% duty cycle
Ctrl Out	0–3 VDC

ENVIRONMENT

Operating Temperature	18 °C to 25 °C
Relative Humidity	< 80%
Temperature Coefficient	0.001% of range/°C