

PowerNet System - Level-I

Overview

Power Test PowerNet system is a complete data acquisition and control package for dynamometers and engines. PowerNet is a two computer system comprised of the Commander computer (desktop PC w/ PNET Software installed), and the WorkStation (touch-screen operated industrial controller housed in a rugged enclosure). When used with a dynamometer, the PowerNet system transforms in to a highly efficient engine development and qualification tool.



63249.1 - PowerNet Commander PC System Shown

PowerNet System features:

- PowerNet's WorkStation features programmable averaging on each channel, high-speed control loop capabilities (freq. cycle time 100 Hz), and higher rates of data acquisition and control.
- Manual, Set Point, and Automated control methods of torque, power, and engine speed.
- Robust, non-proprietary, industrial data acquisition and control hardware.
- Display, record, save and print torque, power, speed, temperatures, pressures, a variety of optional sensor inputs, plus calculated channels.
- Easy to configure displays, reports, and automated patterns.
- Operation temperature range 32°-122° F (0°-50° C).
- All channels easily configured for sensor name, units, and alarm values using pull-down menus.

PowerNet System includes:

- PowerNet Commander PC w/ flat screen monitor, keyboard, mouse, printer, WorkStation w/ Touch-Screen Monitor, sensors for channels ordered and all connections.
- Interface for dynamometer servo-load control valve.
- Analog output for throttle control.
- Eight (8) Temperature sensors (separate channels), expandable up to 32.
 - Thermocouple type-K with extension cables and fittings.
- Four (4) Pressure transducers (separate channels), expandable up to 16.
 - (2) 0-250 PSI (1724 kPa), (1) 0-50 PSI (345 kPa), (1) 0-5 PSI (34 kPa).
- Four (4) Auxiliary Inputs (separate channels).
 - (2) Frequency, (2) Analog, expandable up to 12 analog.
- Barometric pressure transducer.
- Engine start/stop/emergency stop relays for remote starting, stopping, and auto-shutdown.



73315 - PowerNet WorkStation w/Touch-Screen Monitor

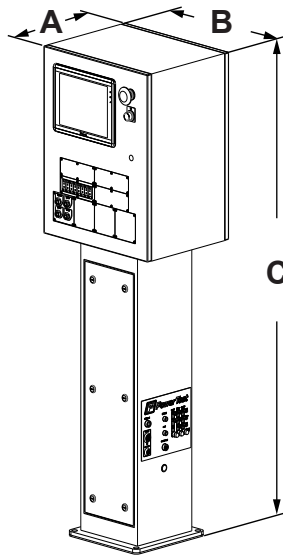
Information from these sensors and the torque, rpm and power measurements from the dynamometer are automatically recorded to the Commander computer's hard drive.

Description	Part #	Voltage (VAC)	Amperage	Weight (lbs)
PNET-WS Data Acquisition System 3.1	1027123.1	110 / 220	10A / 5A	-



N60 W22700 Silver Spring Drive • Sussex, WI 53089 USA
 phone: (262) 252-4301 • fax: (262) 246-0436
www.powertestdyno.com

PowerNet System - Level-I



73315 - PowerNet WorkStation w/Touch-Screen Monitor

Description	Part #	Dimensions inches (mm)			Voltage (VAC)	Amperage	Weight lbs (kg)
		A	B	C			
PC Computer System w/Monitor	63249.1	11 (280)	18 3/4 (476)	21 5/16 (542)	110 / 220	3A / 1.5A	32 (14.5)
Commander Software - PNET 3.0	1027879	-	-	-	-	-	-
Color Printer	C-00307	12 (304)	15 1/2 (394)	9 (225)	*110	5A	5 (2.3)
Surge Suppressor	11915	3 1/2 (89)	6 (152)	2 1/2 (64)	110 / 220	-	3 (1.5)
PNET WS Base Assembly	73315	16 1/2 (419)	21 (533)	68 3/4 (1746)	110 / 220	3.5A-7A	290 (131)

* Supplied voltage convertor **MUST** be used when connecting to 220 VAC supply power.