



DynTek-PC 2+2 / Instrumentation



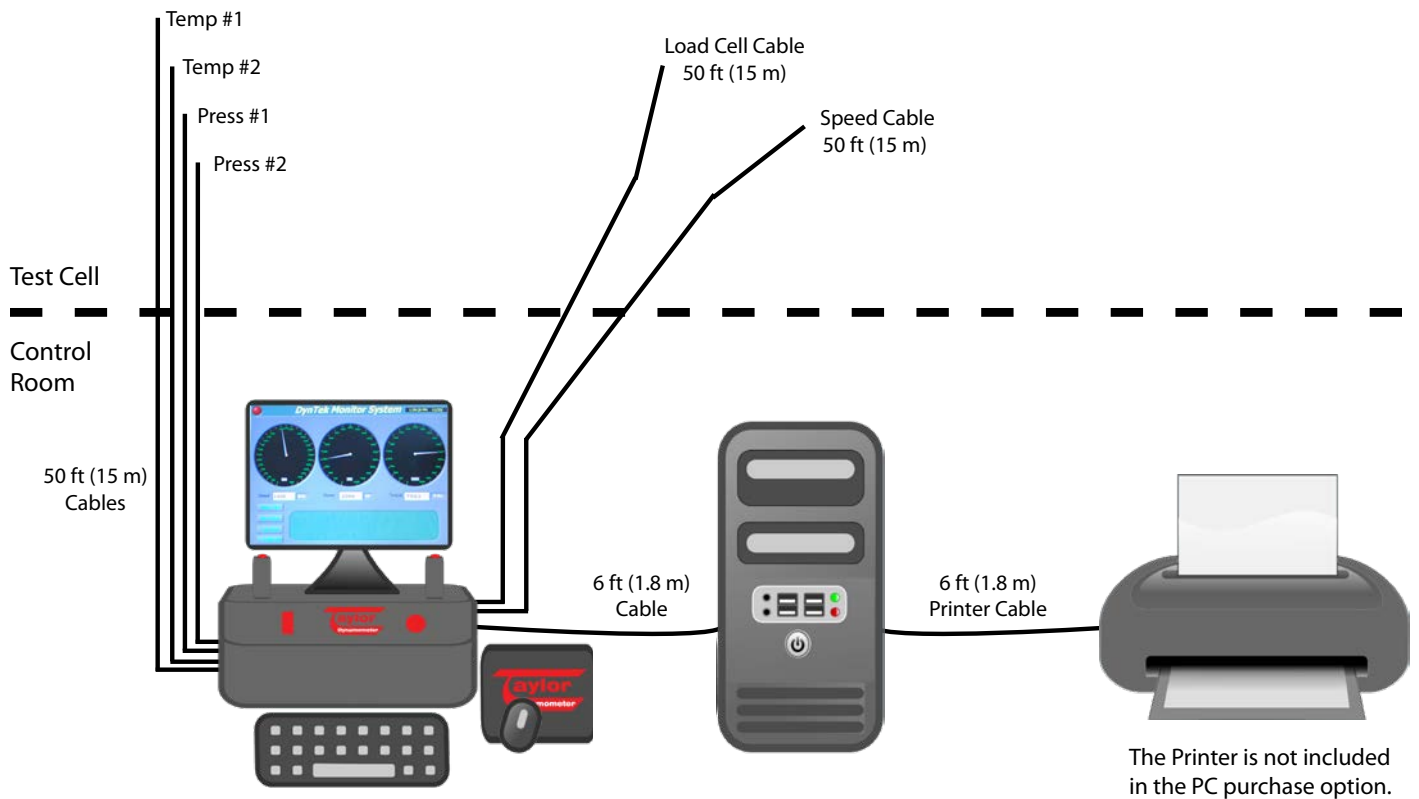
Shown with optional PC, Monitor, Keyboard, Mouse, Mouse Pad, Throttle Control Lever and Load Control Lever.

The DynTek-PC 2+2 engine dynamometer instrumentation system is a display only system intended for the most basic engine dynamometer testing requirements. This system provides for the measurement of torque in either tension or compression (both clockwise and counter-clockwise engine rotation), speed from a standard Magnetic Pickup along with two pressure and two temperature measurements.

DynTek-PC provides the basics (Engine RPM, Engine Torque and Engine Power) along with two (2) pressure and temperature (K type thermocouple) measurement channels. This system is NOT upgradeable. The system connects to a standard PC using a single USB cable / port. The software is designed for use on a PC running Windows XP®, Windows Vista®, Windows 7®, Windows 8®, Windows 8.1® or Windows 10® operating systems. The PC (purchased separately) may be customer provided or purchased from Taylor Dynamometer. When a PC is purchased from Taylor Dynamometer along with the DynTek-PC 2+2 system, the software is pre-installed and tested prior to shipment.

The DynTek-PC 2+2 system allows the operator to take a data point at the press of a button or by setting a log interval for data to be taken at the desired rate during testing. When a test is complete, DynTek-PC 2+2 provides a simple report for presentation to your customer or for your records.

Everything you need to succeed



Specifications

AC Power

Universal AC power input (110/230VAC, 50/60 Hz)

Engine Speed Input Channel

Frequency: 0 to 14,000 Hz

Variable Reluctance Sensor (Magnetic Pickup)

Amplitude Minimum: 80m VAC

Maximum: 130 VAC

Minimum Pulse Width: 100 microseconds

Accuracy: + 3 Hz

Engine Torque Input Channel

Strain-gage: 0 to 10,000 ft-lb (0 to 13,560 Nm)

Input range: 0 to 50 mV DC (Differential or Single Ended)

Capable of driving one(1) 350 ohm bridge load cell

Accuracy: The greater of 0.25% Full-scale or + 8 ft-lb

Displayed Data

Engine Speed (rpm)

Engine Torque (ft-lb/Nm)

Engine Power (hp/kW)

Press 1: 0 to 500 psig (0 to 3,447 kPa)

Accuracy: The greater of 0.25% Full-scale or ± 1 psig

Press 2: -14.7 to 50.0 psig (-101.4 to 344.7 kPa)

Accuracy: The greater of 0.25% Full-scale or ± 1 psig

Temp 1: 32 to 2,282°F (0 to 1,250°C)

Accuracy: $\pm 5^\circ\text{F}$

Temp 2: 32 to 2,282°F (0 to 1,250°C)

Accuracy: $\pm 5^\circ\text{F}$

Everything you need to succeed

