

Single Channel Pulsar Controller



Front panel

Following the success of the Pulsar multi channel digital controller Servotest have developed Pulsar-1. This is a cost effective Single channel controller for test machines and single channel systems with the versatility of the established multi channel Pulsar controller offering the same large range of Software for many testing applications.

- The Pulsar-1 controller is packaged in a single cabinet which can sit on the desk top with the computer.
- All the operator interaction is via a PC which is connected to the Pulsar-1 by USB2.
- All the connections for control and monitoring are via sockets on the rear of the cabinet.
- Connections are available for transducer connection and servovalve drive and a 24 DC supply is built in with relays to control a Hydraulic control manifold, powerpack etc.
- The system can run with an iteration rate of up to 10kHz to enable test frequencies up to 1000 Hz to be run when required.
- The standard system has slots for 6 conditioner/driver cards; the system can be extended if required with a 6 card Node connected via an optical connector to provide additional conditioners, drivers or analogue inputs.
- Supplied as part of a system or to retrofit to existing equipment.





Rear panel

Overall Dimensions (not including connectors or ESTOP)

350mm wide x 260mm depth x 120mm height

Processor

Texas Instruments 200 MHz TMS320C6713 32 bit floating point DSP with 32Mb RAM.

High Speed USB 2.0 PC Interface (maximum length 3m without a repeater).

Firmware downloaded via USB during runtime, so very easy to update.

Transducer Interfaces

Accepts up to 6 high quality Servotest transducer conditioner modules.

Each module has access to 2 connectors on back panel.

(Three included with the basic system (Assumes Load-cell, LVDT and 2 stage Servo valve)).

Module and Transducer connections have TEDS (Transducer Electronic Data Sheet),

Separate cables run from these connectors to each transducer, servo valve, etc.

The Modules available for:

- AC or DC Load cells
- Differential pressure transducers
- LVDTs
- Inductive transducer
- Temposonics transducer
- Servo valve driver (max 4 Servo valves)
- 2 Channel analogue input module (additional monitoring)
- 2 channel analogue output module
- Digital I/O – encoders

Digital I/O

For control of hydraulic control manifolds, etc.

Up to 16 digital I/O channels, 8 channels can be defined as 24V relay outputs, all can be inputs max 2A load per digital output subject to 5A total external load.

Power Supply

Internal 24V 170W Power Supply, 100V – 250V AC 50/60 Hz.

Automatic turn on with PC.

Emergency Stop Safety System

Pilz dual circuit Safety Relay to EN60204-1.

Front panel ESTOP button.

External wired remote ESTOP button.

Other Features

UPS status interface (Mains fail, Battery low, etc).

Optional Servotest Optostar connector to add extra Node to system.

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