

Transducer Box

Introduction: The Transducer Box marshals the signals from the test system sensors. This allows transducers and sensors to be rigged onto an engine while away from the test cell and simply connected to the connector panel when the engine is brought into the cell.

The connectors for the transducers and sensors are mounted on the side of the Transducer Box. The Transducer Box is designed to accept combinations of the following signals and sensors: Thermocouples, PRT's, Pressures, Voltages and Frequency's.

The connector panel can be fitted to either side of the Transducer Box, this is determined by the layout of the Test Cell. Mounting of the Transducer Box is via four fixing bolts this makes it both easy and versatile to attach the Transducer Box to a post, on a wall or directly onto a test stand.

CP produces three standard sizes of Transducer Box Super, Medium and Lite. 90% of applications will be met by one of the standard sizes. System capability can be increased by the simple addition of one of the other sizes of Transducer Boxes either for extra channels or to allow a connector panel in a different location in the cell. CP will also design and build Bespoke Transducer Boxes if required.

SUPER :

- 24 K-type Thermocouples
- 16 Pressure Transducers
- 12 Platinum Resistance Thermometers
- 2 PRT Trip Levels
- 4 Voltage Inputs
- 4 Frequency Inputs
- 1 Engine Speed

MEDIUM :

- 16 K-type Thermocouples
- 8 Pressure Transducers
- 8 Platinum Resistance Thermometers
- 2 PRT Trip Levels
- 1 Engine Speed

LITE :

- 6 K-type Thermocouples
- 4 Pressure Transducers
- 2 PRT Trip Levels
- 2 Auxiliary
- 1 Engine Speed

Dimensions (W x H x D - mm)

SUPER : 300 x 500 x 200

MEDIUM : 300 x 500 x 200

LITE : 300 x 300 x 200

