



## CBP-TRN3: Process Instrumentation Trainer CalBench Package

A pre-configured CalBench for training instrumentation technicians and engineers



### About the Package

The CBP-TRN3 CalBench is a multi-parameter workstation for pressure, process, and temperature instrumentation calibration training. It features a selection of easy to use modules and extras for practicing instrumentation setup, connections and testing. Educate trainees on applications relating to commissioning, calibration and maintenance of the typical devices used for measurement in industrial systems.

The 8060 module sits centrally in the console, providing source, simulation and measurement of process signals, HART communication and 24 V loop power. It features a PC control centre with 12.1" touch screen display, running the calibrator control application. EasyCal software is available as an option, to enable automated calibration and test management.

For pressure, a simple operation regulated pneumatic module with analogue gauge is used for 0 to 5 bar (70 psi) controlled output. Then a precision digital gauge module is used with the supplied pneumatic pump for vacuum to 20 bar (300 psi) coverage. Additional modules include a control centre operated oscilloscope, function generator with frequency counter, Pt100 simulator and DC power supplies.

The package has various extras to aid training applications and create an ergonomic workspace. These include on-bench storage with drawers, holders, perforated panel hooks, document holder, and shelves. Calibration accessories include an adaptors/fittings kit, and an instrumentation test stand with manifold, vice and transmitter bracket.

### Features

- Process/pressure instrumentation test & trainer CalBench
- Multifunction process calibrator module
- Control centre module with 12.1" touch screen display
- Regulated 0 to 5 bar (70 psi) module with analogue gauge
- Digital gauge module for vacuum to 20 bar (300 psi)
- Fixed and variable DC power supply modules
- Function generator module with frequency counter
- Control centre oscilloscope module
- Pt100 simulator module with 23 set points
- Configurable instrumentation test stand
- Benchtop pneumatic pump, pressure fittings/adaptors kit
- Under bench drawer unit & holder, perforated panel fittings, tool kit





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Item #	Qty	Code	Basic Description	Basic Purpose
1	1	7080-HD	CalBench Heavy Duty Version (W 2000 x D 850 x H 1568 mm) Framework bench style with worktop, perforated panel, primary console with 7082 mains power controller module.	Provides an ergonomic workspace for various calibration applications. Modules below to be fitted to the primary console for testing workload.
2	1	7125	Perfo Panel Option: 20 piece Tool Hook Kit	For holding various tools and accessories.
3	1	7139	Perfo Panel Option: Shelf (W 450 x D 250 x H 130 mm)	Suitable for storing equipment and tools.
4	1	7143	Perfo Panel Option: Document Holder (W 450 x H 360 mm)	For placing instructions, user manuals, guides etc.
5	1	7124	5 Drawer Unit (W 525 x D 550 x H 600 mm)	For storage of equipment, tools, components and extras.
6	3	7134	Slotted Divider Kit for drawers inside 7132	Partitions the drawer units for parts and components.
7	1	7123	Under Bench Holder	For storing the 7198 adaptors/fittings kit when not in use.
8	1	8060	Process Calibrator and Control Centre Module Integral process calibrator with source & measure, PC with 12.1" touch screen interface. Built-in communication with compatible modules.	Source and measure process signals for electrical, frequency, temperature. Enables users to calibrate process instrumentation like transmitters, RTDs, thermocouples and more.
9	1	CCPAD	Control Centre Numeric Keypad Module with jog dial	Provides an ergonomic method of using the control centre module without mouse or keyboard.
10	1	MTEG-CV20b/0.02	Digital Pressure Gauge Module Vacuum to 20 bar (300 psi), 0.02 % FS accuracy.	For mid range pneumatic calibration and testing work. Pressure input to the module from the 7192 benchtop pump.
11	1	7084/7102	Analogue Pressure Gauge Module with Regulator 0 to 5 bar (70 psi).	For pneumatic output up to 5 bar (70 psi), input from an external air supply, ie shop air (7 bar / 100 psi).
12	1	CCSCOPE-2206B	Integral Oscilloscope with Connection Module 100 MHz, 2 channel, operation via control centre.	For basic R&M applications, fault finding and diagnostic work.
13	1	7001	Pt100 Simulator Module (-200 to +800 °C)	Simple operation simulator module for Pt100 resistance thermometers.
14	1	8023	10 MHz Function Generator Module with Frequency Counter DDS function generator with sweep and 120 MHz counter.	Used to generate different types of electrical waveforms over the frequency range, and frequency measurement for fault diagnostics and repair work.
15	1	7056	Dual Adjustable Power Supply Module 2 x 30 V DC 3 A.	A variable DC supply to supplement various applications.
16	1	7083	Dual 24 V Fixed DC Power Supply Module	For powering loop instrumentation, transmitters and other equipment requiring 24 V DC.
17	1	7192	Benchtop Pneumatic Pressure Calibration Pump Vacuum to 25 bar (350 psi).	Pressure generation to 25 bar. Used with MTEG-CV20b module, with a dual output manifold for both UUT & module connection.
18	1	7198	Pressure Calibration Accessories Kit A comprehensive selection of fittings, adaptors and hoses.	Provides all the required pressure connections and fittings for modules and pumps to UUTs.
19	1	8100	Instrumentation Test Stand	For positioning of UUTs like transmitters & gauges on benchtop.
20	1	CERTS	Traceable Calibration Certificates. For all test modules and additional test equipment.	Certifies all calibration modules and additional test instruments have been tested in the TE factory to international standards.