About the Package

The CBP-PRES3 CalBench is a package for testing and calibrating pressure and process instrumentation. It is suitable for users that require a workstation that is easy to operate manually, but can also perform software driven calibration applications. This makes it an ideal solution for all skill levels, from technicians learning calibration, to experienced test engineers.

For pressure calibration, high accuracy (0.02 % FS) digital gauge modules feature. For pneumatic workload two gauge modules have regulators for output adjustment and setting. These cover vacuum to 7 bar (100 psi) and 20 bar (300 psi). The 7 bar module is typically fed line pressure from plant air and vacuum from the supplied 7149 electric pump. The 20 bar module from a compressed air cylinder (not supplied).

Additional pressure calibration can be performed using the digital gauge modules for 200 bar (3000 psi) and 700 bar (10,000 psi). These are commonly utilised with the supplied benchtop pumps that feature dual outputs to connect both the module and UUT. Manifold, test stand, adaptors and fittings are also provided.

The 8060+ module situates centrally in the console, providing source, simulation and measurement of process signals, HART communication and 24 V loop power. It features an integral multimeter, and a PC control centre with 12.1" touch screen display. Pressure readback applications are included. EasyCal software communicates with pressure modules, and can be used for automated calibration and test management.

Features

- CalBench for pressure instrumentation calibration work
- Regulated vacuum to 7 bar (100 psi) module with digital gauge
- Regulated 20 bar (300 psi) module with digital gauge
- Digital gauge modules for 200 bar (3000 psi) & 700 bar (10k psi)
- Multifunction process calibrator module with 6.5 digit multimeter
- Control centre module with 12.1" touch screen display
- All pressure modules have control centre readback interface
- Electrical vacuum pump in housing, power switch on bench
- Pneumatic & hydraulic benchtop pumps, adaptor kit, UUT stand
- Fixed and variable DC power supply modules
- Automated calibration with EasyCal software, peripherals supplied
- Under bench drawer unit & holder, perforated panel fittings, tool kit

CBP-PRES3: Process CalBench Package

A pre-configured CalBench for the calibration of pressure instrumentation

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	7123	Under Bench Holder	For storing the 7198 adaptors/fittings kit when not in use.
5	1	7124	4 Drawer Unit (W 525 x D 550 x H 600 mm)	For storage of equipment, tools, documents etc.
6	1	8060+	Process Calibrator and Control Centre Module Advanced system package for precision source and measure capabilities. Integral process calibrator, 6.5 digit multimeter, PC and EasyCal software. Operation via 12.1 " touch screen display. Built-in communication with pressure modules.	Source and measure process signals for electrical, frequency, temperature. Enables users to calibrate process instrumentation like transmitters. HART communication and integral 24 V DC supply. EasyCal software and accessories included for automation, administration and certificate generation.
7	1	CCPAD	Control Centre Numeric Keypad Module with jog dial	Ergonomic method of data entry to EasyCal software.
8	1	RMTEG-CV7b/0.02	Digital Pressure Gauge Module with Regulator Vacuum to 7 bar (100 psi), 0.02 % FS accuracy.	For pneumatic calibration from vacuum to 7 bar (100 psi), used with the 7149 electrical vacuum pump and external air supply. Can be used manually with pump also (measure mode).
9	1	RMTEG-G20b/0.02	Digital Pressure Gauge Module with Regulator 0 to 20 bar (300 psi), 0.02 % FS accuracy.	For mid range pneumatic work, with a line supply typically from a gas cylinder. Regulated output with precision digital gauge for reference calibration. Can be used manually with pump also.
10	1	MTEG-G200b/0.02	Digital Pressure Gauge Module 0 to 200 bar (3000 psi), 0.02 % FS accuracy.	For high range pneumatic pressure measurement to 200 bar. Calibration work performed with the 7194A benchtop pump.
11	1	MTEG-G700b/0.02	Digital Pressure Gauge Module 0 to 700 bar (10,000 psi), 0.02 % FS accuracy.	For accurate hydraulic pressure measurement to 700 bar. Pressure input to the module from the 7195 benchtop pump.
12	1	7056	Dual Adjustable Power Supply Module 2 x 30 V DC 3 A.	A variable DC supply to supplement various applications.
13	1	7087	Quad DC Power Supply Module 6 V (20 A), 12 V (10 A), 24 V (6 A), 48 V (3 A).	Provides a DC power supply to various loop instrumentation under test.
14	1	7149	Electrical Vacuum Pump	Provides a vacuum that connects to the RMTEG-CV7b module, enabling regulation for negative pressure calibration work.
15	1	7149-HCO	Housing and Connectivity Option for the 7149 vacuum pump	Compact housing for the 7149 pump, situated under bench. Sound proofed and power control via 7082 module on CalBench.
16	1	7161-VLP	Benchtop Pneumatic Pressure Calibration Manifold with Vernier Dual port for use from vacuum to 40 bar (600 psi).	Provides a convenient UUT connection on the bench. Used with the RMTEG modules for calibration of pressure devices.
17	1	7195	Benchtop Hydraulic Pressure Calibration Pump Vacuum to 700 bar (10,000 psi).	Hydraulic pressure to 700 bar. Used with MTEG-G700b module, with a dual output manifold for both UUT & module connection.
18	1	7194A	Benchtop Pneumatic High Pressure Calibration Pump Vacuum to 200 bar (3000 psi).	Pressure generation to 200 bar. Used with MTEG-G200b module, with a dual output manifold for both UUT & module connection.
19	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.
20	1	8100	Instrumentation Test Stand	For positioning of UUTs like transmitters & gauges on benchtop.
21	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.