



## CBP-PROC3: Process CalBench Package

A pre-configured CalBench for the calibration of temperature and pressure instrumentation



### About the Process CalBench

The CBP-PROC3 CalBench is a package for testing and calibrating pressure, process, and temperature 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 levels, from technicians learning calibration, to experienced test engineers.

- Heavy duty CalBench system for process instrumentation calibration
- Modular console for testing workload, external items to supplement applications
- Process calibrator module with 6.5 digit multimeter and PC control centre
- Source and measure voltage, current, resistance, frequency and more
- RTD & thermocouple simulation and measurement, HART communication
- Regulated pressure calibration modules for vacuum to 7 bar and 0 to 20 bar
- Precision digital pressure gauge modules for pneumatic and hydraulic calibration
- Benchtop pumps, pressure adaptor kit, manifold and electrical vacuum pump
- Fixed and variable DC power supply modules for powering devices under test
- Dry block calibrator for temperature sourcing, automatic control via EasyCal
- Automated calibration using EasyCal software with printers and extras supplied
- Storage solutions include 4 drawer unit, under bench holder, perfo panel fittings

### Calibration Capabilities

#### Pressure

Gauges, calibrators, transducers, transmitters, indicators, switches, valves, controllers, manometers, chart recorders.

#### Temperature

Temperature sensors, indicators, thermocouple and RTD transmitters, recorders, controllers, thermometers, process calibrators, PRTs, thermistors.

#### Electrical and Process

Calibrators, mV/mA meters, decade boxes, flow totalizers, DP flow transmitters, pulse meters, tachometers, counters.





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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	7141	Perfo Panel Option: Storage Bin Strip (W 450 x H 75 mm) Supplied with 4 x 1 L bins.	For storage of components and small tools.
5	1	7124	4 Drawer Unit (W 525 x D 550 x H 600 mm)	For storage of equipment, tools, documents etc.
6	1	7123	CPU/Dry Block Calibrator Holder	For storing dry block calibrators when not in use.
7	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 compatible modules.	Source and measure process signals for electrical, frequency, temperature. Enables users to calibrate process instrumentation like transmitters, RTDs, thermocouples and more. EasyCal software and accessories included for automation, administration and certificate generation.
8	1	CCPAD	Control Centre Numeric Keypad Module with jog dial	Ergonomic method of data entry to EasyCal software.
9	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.
10	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.
11	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.
12	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.
13	1	7056	Dual Adjustable Power Supply Module 2 x 30 V DC 3 A.	A variable DC supply to supplement various applications.
14	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.
15	1	7149	Electrical Vacuum Pump	Provides a vacuum that connects to the RMTEG-CV7b module, enabling regulation for negative pressure calibration work.
16	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.
17	1	7161	Benchtop Pneumatic Pressure Calibration Manifold Dual port for use from vacuum to 200 bar (3000 psi).	Provides a convenient UUT connection on the bench. Used with the RMTEG modules for calibration of pressure devices.
18	1	7115	Contamination Trap For pneumatic use from vacuum to 200 bar (3000 psi).	To protect pressure calibrators and controllers against impurities and residues released by pressure instrumentation under test.
19	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.
20	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.
21	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.
22	1	8100	Instrumentation Test Stand	For positioning of UUTs like transmitters & gauges on benchtop.
23	1	8072	Dry Block Calibrator (28 to 660 °C) with metric multi hole insert (1x3,2x4,1x5,1x6,1x9 mm), blank insert, EasyCal software driver.	Temperature source for the calibration of probes, RTDs, and more. Automated operation with 8060+ and EasyCal software.
24	1	8072-METP	Pack of 16 Metric Inserts for 8072: 3 mm to 20 mm holes	Inserts for use with different probe sizes, used with 8072.
25	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.