CBP-PROC2: Process CalBench Package
A pre-configured CalBench for process, temperature and pressure instrumentation calibration

About the Process CalBench

The CBP-PROC2 package is a high performance calibration workstation for testing and verifying process instrumentation. It has modules and extras to enable users to rapidly calibrate common pressure and temperature instruments such as transmitters, gauges, RTDs and thermocouples. It is an optimal solution for instrument workshops where users need to centralise their calibration and commissioning processes.

- Dedicated process instrumentation calibration bench
- 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
- Automatic pressure controller module for vacuum to 40 bar (600 psi)
- Regulated pneumatic pressure calibration module for 0 to 200 bar (3000 psi)
- Precision pressure measurement modules for pneumatic and hydraulic
- 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

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	7137	Perfo Panel Option: 40 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	7157	Articulating Keyboard Tray for CalBench	Situates the keyboard and mouse for the control centre module operations. Can be positioned under bench when not in use.
6	1	8134	Mobile 4 Drawer Unit, ESD, RAL 7035 light grey colour	Mobile storage that can situate under the CalBench.
7	1	7123	CPU/Dry Block Calibrator Holder	For storing a dry block calibrator when not in use.
8	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.
9	1	CCPAD	Control Centre Numeric Keypad Module with jog dial	Ergonomic method of data entry to EasyCal software.
10	1	8030B/G40b/G20b/CV4b/BARO	Automatic Pressure Calibrator Module with multiple ranges Sensor 1: 0 to 40 bar (600 psi), 0.01 % FS accuracy. Sensor 2: 0 to 20 bar (300 psi), 0.01 % FS accuracy. Sensor 3: Vacuum to 4 bar (60 psi), 0.01 % FS accuracy. Sensor 4: Barometric Reference.	For automated pressure calibration. 40 bar range for workload pneumatic testing of gauges, transmitters etc. Supplied with contamination trap. Ranges can be modified as per customer requirements.
11	1	RMTEG-G200b/0.02	Digital Pressure Gauge Module with Regulator 0 to 200 bar (3000 psi), 0.02 % FS accuracy.	For high range pneumatic calibration work, with a line supply typically from a gas cylinder to enable regulator adjustment.
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	XTEG-G100b/0.02/M	Pressure Measurement Module with Control Centre Interface 0 to 100 bar (1500 psi), 0.02 % FS accuracy.	For mid/high range pneumatic calibration work. Used with 7194A pump or T-piece method from RMTEG-G200b/0.02.
14	1	XTEG-CV20b/0.02/M	Pressure Measurement Module with Control Centre Interface Vacuum to 20 bar (300 psi), 0.02 % FS accuracy.	For reference pneumatic pressure calibration. Used with 7194A pump or T-piece method from 8030B module.
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	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 instrumentation and devices under test.
17	1	7149	Electrical Vacuum Pump	Provides a vacuum for the 8030B controller module.
18	1	7149-HCO	Housing and Connectivity Option for the 7149 vacuum pump	Compact housing for the 7149 pump, situated under bench.
19	1	7195	Benchtop Hydraulic Pressure Calibration Pump Vacuum to 700 bar (10,000 psi).	Provides hydraulic pressure to 700 bar XTEG module.
20	1	7194A	Benchtop Pneumatic High Pressure Calibration Pump Vacuum to 200 bar (3000 psi).	Pressure generation to 200 bar, suitable for use with pressure modules when compressed air source is not available.
21	1	7161P	Quad Port Benchtop Pneumatic Pressure Calibration Manifold For input pressures from vacuum to 200 bar (3000 psi).	For use with the 8030B & RMTEG pressure output modules, enabling multiple pressure UUTs to be set up and tested.
22	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.
23	1	8100	Benchtop Instrumentation Test Stand	For positioning UUTs on CalBench worktop.
24	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.
25	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.
26	1	8002	CalBench Environmental Monitoring System	Measures and logs temperature, relative humidity and barometric pressure, with control centre interface.
27	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.

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