



CBP-WW1: Wide Workload CalBench Package

A pre-configured CalBench for electrical, temperature and pressure calibration



About the Wide Workload CalBench

The CBP-WW1 is a CalBench package designed to provide users with a turnkey solution to calibrate instruments and devices used across industries. It offers a selection of features and functions to enable automated calibration using EasyCal software on the 7051Plus multifunction calibrator and control centre module.

- Multi instrument and device testing
- Multifunction calibrator module with 6.5 digit multimeter and PC control centre
- Source and measure voltage, current, resistance, frequency and more
- RTD and thermocouple simulation and measurement
- Automatic pressure controller module for vacuum to 20 bar (300 psi)
- Regulated pressure calibration module for 0 to 200 bar (3000 psi)
- Precision pressure measurement modules for 2 bar, 100 bar and 700 bar
- Benchtop pumps, pressure adaptor kit and electrical vacuum pump included
- Fixed and variable DC power supply modules for powering devices under test
- Control centre operated 100 MHz oscilloscope
- Temperature interface module for batch thermocouple calibration
- Dry block calibrators 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 / Frequency

Multimeters, AC/DC signal sources, clamp meters, data loggers, tachometers, ohmmeters, decade boxes, RCL meters, conductance meters, inductance meters, oscilloscopes, frequency meters, frequency counters, timer 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 | 7133 | Magnet Set for Perfo Panel (10 x round, 10 x hook type) | For securing documents and small tools to perfo panel. |
| 5 | 1 | 7132 | 5 Drawer Unit (W 525 x D 550 x H 600 mm) | For storage of equipment, tools, documents etc. |
| 6 | 3 | 7134 | Slotted Divider Kit for drawers inside 7132 | Partitions the drawer units for parts and components. |
| 7 | 1 | 7123 | CPU/Dry Block Calibrator Holder | For storing dry block calibrators when not in use. |
| 8 | 1 | 7051+ | Multifunction Calibrator and Control Centre Module Advanced system package for precision source and measure capabilities. Integral 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 electrical, electronic, frequency, temperature. Enables users to calibrate process and electrical instruments like sensors, multimeters, clamp meters, scopes 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/G20b/CV2b/ BARO | Automatic Pressure Calibrator Module with multiple ranges Sensor 1: 0 to 20 bar (300 psi), 0.01 % FS accuracy. Sensor 2: Vacuum to 2 bar (30 psi), 0.01 % FS accuracy. Sensor 3: Barometric Reference. | For automated pressure calibration. 20 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 | XTEG-G700b/0.02/M | Pressure Measurement Module with Control Centre Interface 0 to 700 bar (10,000 psi), 0.02 % FS accuracy. | For hydraulic calibration with accompanying pump. |
| 13 | 1 | XTEG-G100b/0.02/M | Pressure Measurement Module with Control Centre Interface 0 to 100 bar (1450 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-CV2b/0.02/M | Pressure Measurement Module with Control Centre Interface Vacuum to 2 bar (30 psi), 0.02 % FS accuracy. | For low range pressure calibration. Used with 7194A pump or T-piece method from 8030B module. |
| 15 | 1 | 7085A | Auto Switching Temperature Distribution Module | Connection module to enable batch testing of temperature devices like thermocouples. |
| 16 | 1 | 7053 | 56 V DC 4 A Adjustable Power Supply Module - Digital | A variable DC supply to supplement various applications. |
| 17 | 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. |
| 18 | 1 | CCSCOPE-2208B | Integral Oscilloscope with Connection Module 100 MHz, 2 channel, operation via control centre. | For basic R&M applications, fault finding and diagnostic work. |
| 19 | 1 | 7149 | Electrical Vacuum Pump | Provides a vacuum for pressure modules. |
| 20 | 1 | 7149-HCO | Housing and Connectivity Option for the 7149 vacuum pump | Compact housing for the 7149 pump, situated under bench. |
| 21 | 1 | 7195 | Benchtop Hydraulic Pressure Calibration Pump Vacuum to 700 bar (10,000 psi). | Provides hydraulic pressure to 700 bar XTEG module. |
| 22 | 1 | 7194A | Benchtop Pneumatic High Pressure Calibration Pump Vacuum to 200 bar (3,000 psi). | Pressure generation to 200 bar, suitable for use with pressure modules when compressed air source is not available. |
| 23 | 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. |
| 24 | 1 | 8100 | Benchtop Instrumentation Test Stand | For positioning UUTs on CalBench worktop. |
| 25 | 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 7051+, EasyCal and 7085A. |
| 26 | 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. |
| 27 | 1 | 8073 | Dry Block Calibrator (100 to 1205 °C) with metric multi hole insert (3, 4, 6 mm), blank insert, EasyCal software driver. | Temperature source for the calibration of thermocouples. Automated operation with 7051+, EasyCal and 7085A. |
| 28 | 1 | 8073-METP | Pack of 10 Metric Inserts for 8073: 3,4,5,6,7,8,9,10,11,12 mm | Inserts for use with different probe sizes, used with 8073. |
| 29 | 1 | 8002 | CalBench Environmental Monitoring System | Measures and logs temperature, relative humidity and barometric pressure, with control centre interface. |
| 30 | 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. |