



Custom Pressure Systems

Rack, Cart and Customized Solutions



MENSOR CUSTOM SYSTEMS

Designed and built to your requirements

The systems described in this catalog are provided solely to showcase our capabilities. Some of the systems shown utilize instruments that are now superseded by newer technologies and instruments. The recent introduction of newer Mensor pressure controllers provides a more cost effective and technically superior controller for many of the same applications. Mensor will work with the end user to provide a system that meets their application requirements.

Advantages of
having Mensor
build your
pressure system

Mensor can offer our many years of pressure expertise to quickly solve most pressure application needs. We have experience designing, testing, and assembling pressure test systems. We have the resources and knowledge that allow us to integrate the necessary regulators, compressors, vacuum pumps, computers and software into a matched system. And we guarantee no one knows our pressure equipment inside and out better than we do.

Typical
application areas

Wind tunnel system monitoring
Avionics — air data test configurations
Jet engine test cell calibration systems
Pharmaceutical calibration carts
Medical R&D applications
Electrical utilities calibration standards
Pressure switch calibration and qualification Systems
Transmitter leak test systems
Sensor qualification test systems
General pressure calibration carts and racks
Automotive and Avionics test cells

Where to obtain
more information

Customer Info Newsletter

Call, Fax or Email:

Mensor

201 Barnes Drive

San Marcos, Texas 78666

Phone: 512.396.4200

Fax: 512.396.1820

Email: systems@mensor.com

For current systems visit the Mensor website at www.mensor.com

NOTE: Product improvement is a continuous process at Mensor. We reserve the right to make changes to the product specifications and appearance to provide a better product to our customers.

DESIGNING YOUR CUSTOM SYSTEM

by Bob Fox, Custom Systems Manager

Custom pressure systems consist of the basic pressure instruments (measuring and/or controlling devices) along with the necessary accessories to make it functional for the user's application. The biggest advantage of a system is that one source is responsible for making everything work together.

Many of the important questions pertain to how the consumer is going to use the system. Mensor has created a checklist for clients to review when designing their custom system. It covers how the pressure will be monitored, if a pressure controller is required, what is the source of pressure or vacuum, whether or not an enclosure is necessary, what electrical power is required, environmental requirements, certifications and software. In addition, information about pressure range, accuracy, volume loads, flows, mobility requirements and ruggedness may be needed.


For example, the pressure source is chosen based on the pressure range that is required. A simple hand pump may work for some applications, but an air compressor may be required for others. Bottled gas supplies (rechargeable vs. replaceable) may be required for specialty gases or higher pressures. At much higher pressures, boosters may be required or may just be more economical. Regulating, buffering or conditioning the pressure to match the test device also factors into the selection process.

Electrical considerations are usually basic ones. There are typically two choices – AC or DC sources. AC sources are typically 100 to 125 volt and 220 to 240 volt, with frequencies of 50 and 60 Hz. DC system ranges typically run 5, 12, 24 or 48 volts DC.

A system can be mounted in a chassis, a rack or on a cart. Our pressure devices work well with a selected set of preferred enclosures. Customer requests are welcome even if it is just matching paint colors to existing company standards.

Software for controlling and monitor can be furnished. A large number of the systems have built-in embedded programs that operate the system. If a user interface is required, typically National Instruments LabVIEW® programs are generated or Microsoft Visual Studio.

Custom systems require a customer to give fairly detailed specifications describing what is needed and how it will be used. A high degree of communication between Mensor and the customer is needed. This review of the design requirements is informal but helps to insure that the customer's expectations are met.

		Custom Systems Order Checklist	
Pressure Monitoring:			
CPG Model _____		Transducer _____	Range: _____
Pressure Controller:			
4000, 6000/6050, 8000		Other _____	Range: _____
Vacuum Sources:			
Lubricated Mechanical Pump		Venturi Transducer	
Non-lubricated Pump		Hand Pump	
P/V Controller		User Supplied	
Pressure Sources:			
Compressor		Booster	
Bottle/Regulator		User Supplied _____	
Enclosures:			
Rack	Cart (size ___x___x___)	Black Box	
Electrical Inputs:			
AC Source - 100, 120, 220, 240 VAC		50 Hz, 60 Hz, 400 Hz	
DC Source - 5, 9, 12, 24, 28, 48 VDC, Battery, or Other			
Electrical Outputs:			
Environment:			
Operating Temp _____		Power Consumption _____	
Storage Temp _____		Special Maintenance _____	
Size Restrictions _____		Daily Usage _____	
Weight Restrictions _____			
Required Certifications:			
UL, CE, FCC, ISO9000, NIST, A2LA, RoHS, WEEE, CofC, Other _____			
Software Requirements:			
C, C#, C++, LabVIEW, Microsoft Visual Studio, Other _____			
User Interfaces:			
Display (LCD, LED, VF, Other _____), Keypad/Touch Screen, Black Box			
RS-232 RS-485 GPIB Ethernet USB Other _____			

Some of the systems listed below are shown in this catalog and provided solely to showcase our capabilities.

RACK EQUIPMENT

Model 9304	Designed to provide measurement, calibration and leak testing for wind tunnel applications
Model 9415	High speed production characterization and calibration of pressure sensors
Model 9417	CPC6050 Rack System
Model 9463	Test calibration and documentation for nuclear sensors
Model 9464	Configured for testing pressure transmitters
Model 9477	Calibration System

CARTS AND MOBILE EQUIPMENT

Model 9301	Designed for jet engine testing
Model 9401	Designed for low pressure
Model 9403	Designed for high pressure
Model 9404	Designed to test/calibrate air data computers, altimeters, airspeed indicators and avionics type pressure devices
Model 9405	Many features of 9401 and utilizes stainless steel features (easily maintained if used in medical environment)

BENCH OR DESKTOP EQUIPMENT

Models 9302 & 9303	Designed to measure a window range of wind speeds and to monitor air density on high and/or low pressure sides
Model 9414	Designed as a 2 or 4 channel controller, optimized for high speed/precise control of test pressures in continuous production test process
Model 9416	Designed as a large volume pneumatic pressure controller
Model 9417	Designed as an extremely large volume pneumatic pressure controller
Model 9424	Single channel pressure controller optimized for speed in medium to large volume applications
Model 9426	A special application pressure controller with media temperature monitoring
Model 9427	Wind tunnel pressure system that includes a calibration sled for external calibration of the measurement transducers
Model 9435	Custom designed pressure calibration bench used to calibrate and maintain pressure transmitters
Model 9440	Industrial pressure work bench provides basic tooling and computer for service work
Model 9441	A modified Air Data Test Set with a three-channel pneumatic pressure monitor/controller/calibrator
Model 9446	Suitable for powering, testing and calibrating transmitters, solenoids, temperature and other electronic and pneumatic devices
Model 9449	Suitable for the maintenance & repair of pressure transmitters, sensors, sol. valves and other elec. and pressure related devices
Model 9467	Designed to calibrate up to 8 Mensor transducers at a time
Model 9500	Specifically designed to test for small pneumatic leaks in single and dual port pressure transmitters
Model 17712	Configured for wet outside environments and distant pressure monitoring up to 4000 feet or 1300 meters

MISCELLANEOUS ACCESSORIES AND SUPPORT EQUIPMENT

Models 73, 74, 75	Pressure booster systems — Shop air pressure booster, low pressure booster, and a Haskel Air booster reconfigured for mounting in a standard 19" instrumentation rack
Models 9420A	Remote transducer display module for calibrating, testing or permanent readout of Mensor transducers
Model 9442	Pressure regulating console designed as an accessory to the Mensor Workbench Model 9440
Model 82	Vacuum Pump Compressor Set
CPA2500A	Data logger

Rack Equipment

For fixed location applications, such as a production line or calibration laboratory, rack-based systems provide a space saving approach reducing the floor/bench space required for a complete pressure calibration system. Standard EIA 19 inch wide instrument racks can be provided to house all system components. In addition to multiple pressure calibrators, rack systems can include all ancillary support items such as vacuum pumps, regulators, and power distribution. Each system is configured to individual customer requirements.

MODEL 9415 – HIGH SPEED MULTI-CHANNEL PRESSURE CONTROLLER

The Model 9415 is a series of pressure control systems that are predominately used in production testing, characterizing and calibrating of semiconductor pressure sensors. It typically is configured with a semiconductor chip handler to rapidly test and calibrate trays or tubes of sensors at up to 11 test pressure points using multiple 9414 controllers. The system is optimized for switching speed and the ability to rapidly reset test pressures. The system utilizes one or two Mensor controllers or the Mensor Model 9414 Dual or Quad Channel Pressure Controller for pressure generation and control and external transducer modules as measurement standards. The systems can be configured in short or tall racks with room for proprietary test equipment or computers.



MODEL 9417 - CPC6050 RACK SYSTEM

This GPIB Controlled Pressure System for avionics test applications includes an internal vacuum pump and regulated supply pressures for an external pressure source.



MODEL 9304 – AIR DATA MEASUREMENT SYSTEM FOR WIND TUNNEL MONITORING

The Model 9304 Air Data Measurement System provides redundant measurement, calibration and leak testing for wind tunnel applications. The rack mounted PC utilizes IEEE-488 and serial communications to control pumps, compressors and controllers when performing calibration of secondary transducers and system leak tests of the overall system prior to usage. During testing, the system provides backup test data to mainframe computers over an Ethernet network. Test program is written using National Instruments LabVIEW® and displayed on a large touch screen user interface.



MODEL 9477 – CALIBRATION SYSTEM

The Model 9477 is a calibration system for pneumatic and hydraulic calibrations up to 23,000 psi using multiple CPC6050 pneumatic controllers and a single CPC8000-H hydraulic controller. system can automatically select pressure range, controller channel and/or controller to achieve the highest accuracy possible.



MODEL 9463 – MULTIPLE RACK DATA ACQUISITION SYSTEM

The Mensor Model 9463 is a rack mounted data acquisition system designed to qualify, test and calibrate pressure transmitters. The system can include multiple instrumentation racks sharing a common source of supply pressure and accumulating data into a common Access/SQL Server database hosted on one of the racks. Each rack consists of a Mensor CPC8000 Pressure Calibrator for high pressure calibrations, a Mensor CPC6000 Dual Channel Pressure Calibrator for low and mid pressure calibrations, an Agilent Data Acquisition/Switch Unit, a Tektronix Programmable Power Supply, Power Distribution Module, 23" Touchscreen Monitor/Computer and keyboard drawer. Other Mensor controllers can also be substituted for the CPC8000 or 6000. Controlling software is written in National Instruments LabView graphical programming language with manufacturing support documents written in a '.net' language. The control software communicates with four ThermoTron thermal chambers having 8200 series controllers. Each rack system accesses multiple transmitters and generates individual data packages including calibration charts and performance data.



MODEL 9464 – SINGLE RACK PRESSURE TEST SYSTEM

The Mensor Model 9464 is a single rack pressure test system consisting of two dual channel Mensor pressure controllers and one single channel high pressure controller with pressure booster, regulators and safety valves. The system is configured for testing of a variety of pressure transmitters.



Carts and Mobile Equipment

The warm-up time for Mensor pressure calibrators is typically 15 minutes or less, providing an ideal solution for applications requiring a mobile, cart based system. Mensor has designed a variety of customized systems which include all required support components for self-contained operation. Accessories such as rechargeable air/nitrogen cylinders with regulators to provide supply pressure and vacuum pumps for sub-atmospheric pressure control can be mounted in the cart. Systems can also include a PC and lockable storage drawers for documentation, fittings, hoses and tools. Pneumatic tires with casters provide extreme mobility.

MODEL 9301 – MOBILE PRESSURE CALIBRATION CART FOR JET ENGINE TESTING

The Model 9301 has a pressure controller for generating pressure and 10 pressure measurement standards for measuring specific pressure ports used on jet engines. The cart is designed to operate inside the engine cell, but has a large vacuum fluorescent display that is readable outside of the work area. Provisions are made to isolate fuels, oils and other liquids from the pressure media. Rechargeable pressure storage tanks provide source pressure for the controller.



MODEL 9403A – HIGH PRESSURE CALIBRATION CART

This cart is capable of generating pneumatic pressures up to 6500 psi from a 300 psi external supply. The system is equipped with supply regulators, high pressure hoses and a retractable power cord on an industrial cart. This cart can also be combined with a Mensor CPC8000 for a complete calibration solution.



MODEL 9401 – PRESSURE CALIBRATION CART

The Model 9401 is available in multiple configurations.

The low pressure calibration cart (pictured right) can be equipped with any of Mensor's pressure controllers or calibrators. Rather than using high pressure storage tanks for source pressure, this cart can be equipped with a compressor (dry or lubricated) and optionally with a vacuum pump (dry or lubricated) that provide longer service intervals with less maintenance and recharge times. The cart includes multiple drawers that can be locked for storage of documentation, laptop, hoses, fittings, and other tools.



This version (pictured right) accepts many Mensor pressure controllers including high pressure gauge and absolute referenced controllers. Although slightly smaller, the cart can include a vacuum pump and cord reel in the cabinet and secure a full size nitrogen bottle on the front tray.



This version of the Model 9401 pressure cart comes in both a low pressure version (left photo) for use with the CPC6000, CPC6050 or the higher pressure CPC8000 pressure controller (right photo). Both versions include electrical cord reel and power distribution, vacuum pumps and appropriate pressure regulators for external supply pressure. The controllers are mounted at 'eye level' to allow stand-up operation and still provide a full work surface below. A six wheel design makes movement in close quarters easier.



MODEL 9404 – AIR DATA TEST SET CALIBRATION CART

The Model 9404 is a mobile calibration cart based on the Mensor ADTS and is designed to test and calibrate air data computers, altimeters, airspeed indicators and other avionics type pressure devices. Internal to the cart is a dry vacuum pump and compressor capable of simulating altitudes up to 60,000 feet and sub-sonic airspeeds. Although not designed for totally open air environments, this unit can easily be moved from one aircraft to another in a hanger type environment.



MODEL 9405 – CALIBRATION CART WITH STAINLESS STEEL SURFACES

The Model 9405 has many of the features of the 9401 calibration cart. This system utilizes stainless steel surfaces that can be maintained in a medical environment. The system is shown with a CPC6000 controller, but can be equipped with any of Mensor's pressure controllers. It can also be equipped with vacuum pumps, compressor or rechargeable bottle pressure supplies.



Bench or Desktop Equipment

In addition to rack and cart based systems, Mensor also provides custom engineered solutions for a wide variety of pressure measurement, calibration measurement and calibration applications. Applications have included stand-alone vacuum pump compressor sets, large volume controllers, multi-channel high speed pressure controllers, remote pressure monitoring equipment, multiple digital pressure gauges mounted in a portable case complete with external quick connects for pressure input and output, medical device calibration carts and pressure booster assemblies.

MODEL 9435 – TRANSMITTER CALIBRATION BENCH SYSTEM

The Model 9435 Transmitter Calibration Bench is a custom designed pressure calibration bench used to calibrate and maintain pressure transmitters. It consists of a rack mounted Mensor CPC6000 Automated Pressure Calibrator, Mensor CPC8000 High Pressure Calibrator with vacuum pump and pressure booster.

This particular configuration can calibrate transmitters up to 250 bars but can be extended to 400 bars or 6000 psi. The bench is a standing height 30 inch by 72 inch laboratory type bench with multiple shelves, drawers and light. Mounted on the bench is a Mensor Model 9436 Instrumentation Display Console that provides control of the vacuum pump and all calibrators using a Windows based application and special calibration assistant routines. The console is geared for those that may not be metrologists, but periodically need to calibrate transmitters or other pressure devices.



MODEL 9440 – CALIBRATION/REPAIR BENCH

The Model 9440 is a simple industrial work bench suitable for pressure service work. The bench is a mobile 2 foot x 6 foot bench with phenolic top, one shelf, and a four foot overhead work light. A separate mobile tool cart can also be included with or without common tools. The unit can also include a Dell ® or similar computer capable of holding test programs, instructions or other documents.



MODEL 9446 – INDUSTRIAL TEST BENCH

The Model 9446 custom designed pressure calibration/test bench is suitable for powering, testing and calibrating transmitters, solenoids, temperature and other electronic and pneumatic devices.

The system can be configured on a 72 inch wide by 30 inch deep work bench with a 1.75" butcher block or phenolic work surface. The left and right legs of the bench can include a combination of straight legs with height adjusters or casters, drawer sets or cabinet suitable for larger equipment like vacuum pumps or temperature baths.

The standard system will accept a maximum input pressure of 3500 psi on the high pressure input as well as low pressure or shop air input up to 150 psi for low pressure uses. Modules including multiple ranges of pressure control and measurement, AC and DC sources for solenoid testing, loop power, 4 to 20 mA measurement, vise, booster or replaceable supply tanks.



MODEL 9449 – PRESSURE TEST BENCH

The Model 9449 is a custom pressure test bench suitable for the maintenance and repair of pressure transmitters, sensors, solenoid valves and other electrical and pressure related devices.

This particular work center can be configured on as small as a two and one half foot by four foot bench or as large as a six foot by three foot bench. The bench is designed with six pressure panels (expandable on larger size bench), a universal transmitter mounting flange (class 150 and 300), 4 to 20 ma loop power supply, 120 volt AC and 24 volt DC solenoid test module, a vise and high pressure booster. A Keithley Multimeter is provided to monitor electrical parameters including voltage, current, frequency and counts. The system operates off standard 115/230 VAC and clean, dry pressures of 100 to 150 psi shop air and 300 to 3000 psi dry Nitrogen. The system generates the required pressures up to 6500 psi and voltages from these three sources. The system is plumbed to accept a user supplied vacuum pump for sub-atmospheric pressure requirements.

Application specific carts can also be included. The two foot by three and one half foot cart shown is designed for a dead weight tester (DWT) on the top surface, storage for a temperature bath below the DWT, storage for the DWT mass set on the right with a tool/piston-cylinder drawer on the lower right side.



MODEL 9467 – PRESSURE CALIBRATION BENCH

This bench was designed to automatically calibrate up to 8 Mensor 6100, 6180, or 6010 transducers at a time. It utilizes a Mensor CPD8000 measurement reference with 0.005% of reading or better measurement accuracy. The system pressure is controlled with a Mensor CPC6000 pressure controller (although other controllers can be substituted). The bench also includes a Dell computer with Mensor calibration software capable of automating the calibration process including initial exercising of the transducers, performing as-found calibration, calibration corrections, as-left calibration and calibration chart generation. The system retains all data, calibration charts and test configuration setups.



MODEL 9414 – DUAL AND QUAD CHANNEL PRESSURE CONTROLLERS

The Model 9414 can be built as a two or four channel controller. It is optimized for high speed and precise control of test pressures in a continuous production test process. It is the heart of the Mensor 9415 test system used in semiconductor pressure sensor testing.



MODEL 9416 – LARGE VOLUME PRESSURE CONTROLLER

The Model 9416 is a large volume pneumatic pressure controller capable of controlling volumes even larger than the standard Mensor controllers, but with similar control characteristics.



MODEL 9417 – EXTREMELY LARGE VOLUME PRESSURE CONTROLLER

The Model 9417 is a pneumatic pressure controller capable of controlling large pressure vessels in excess of 150 cubic foot volume at pressures up to 120 psi. The intended function of this system is to control pressure in a large volume and monitor the leakage into as many as three smaller volumes within that large volume.



MODEL 9424 – SPECIAL APPLICATION PRESSURE CONTROLLER

The Model 9424 is a single channel pressure controller optimized for speed in medium to large volume applications. It has been used in medical packaging applications and high speed pressure calibration applications. It is a derivative of the dual and quad channel Model 9414, but can be utilized at pressures up to 1500 psi.



MODEL 9441 – THREE CHANNEL MODIFIED ADTS PRESSURE CONTROLLER

The Model 9441 Modified ADTS Pressure Controller is a three channel pneumatic pressure monitor/controller/calibrator. The range of each channel is zero to 8000 PSF of absolute zero reference pressure. The unit is configured with special solenoid valves to emulate the operation of a previous generation test setup per user documents. The instrument can be operated from the front panel, or over a RS-232 serial port or a 10/100 bps Ethernet port. The instrument utilizes three Mensor CPT6180 Digital Pressure Transducers for measurement. The transducers are mounted inside the unit and can be accessed for calibration through the front panel operation, or either communication port. It has an accuracy of 0.010% of reading down to 50% of full scale and 0.005% for full scale below 50% and a precision of 0.003% of span with a 365 day recommended calibration interval. The Model 9441 is housed in an aluminum chassis having dimensions of 17.75" (45.085 cm) wide, 7" (17.78 cm) high and 17.5" (44.45 cm) deep. Standard rack ears add 1.25 (3.175 cm) to the width and 1.75" (4.445 cm) to the depth. All porting extends from the rear of the chassis and adds additional depth depending on fittings and connections to the unit. The unit is configured for desktop or rack mounting in a standard 19" instrumentation rack, 4U height with the chassis feet removed. A heavy duty vacuum pump can be included to support the Model 9441.



MODELS 9302 & 9303 – WIND TUNNEL PRESSURE MONITORS

These models consist of two or more low pressure differential pressure transducers used to measure a window range of wind speeds. Single or dual barometric transducers can be incorporated to monitor the air density on the high and/or low pressure sides. System is mounted in a NEMA 12 enclosure for weather protection and provides RS-232 or RS-485 serial communications to the host monitoring location.



MODEL 9427 – WIND TUNNEL PRESSURE SYSTEM

The Model 9427 Wind Tunnel Pressure System is a two channel pneumatic pressure measuring and controlling instrument with an external Transducer Calibration Sled. It contains five measurement transducers arranged with a high range sensor (0 to 32.5 psi absolute) and a low range sensor (0 to 15 psi absolute) on each channel along with a barometric reference transducer that can be monitored independently or used as a precision reference to automatically null the readings of the other four internal transducers. The instrument can be operated from the front panel over a RS-232 serial port or a 10/100 bps Ethernet port. Each of the five removable transducers has an accuracy of 0.010% of reading down to 50% of span and 0.005% of FS below 50% of span and a precision of 0.003% of span with a 365 day recommended calibration interval. They are similar in appearance to the transducers found in the Mensor CPC6000 Automated Pressure Calibrator and include built-in overpressure relief valves set to approximately 110% of range. The system is housed in an aluminum chassis having dimensions of 17.75" (45.085 cm) wide, 7" (17.78 cm) high and 17.5" (44.45 cm) deep. Standard rack ears add 1.25 (3.175 cm) to the width and 1.75" (4.445 cm) to the depth. All porting extends from the rear of the chassis and adds additional depth depending on fittings and connections to the unit. The unit is configured for desktop or rack mounting in a standard 19" instrumentation rack and has a 4U height when the chassis feet are removed. The unit operates from universal power (100 to 240 volt 50/60 Hz) at 2 amps maximum. The overall system includes a Calibration Sled for external calibration of the measurement transducers.



MODEL 9426 – LARGE VOLUME LEAK TESTER WITH MEDIA TEMP COMPENSATION

The Model 9426 is a special application pressure controller with media temperature monitoring. It is a single channel controller tuned to quickly control 60 to 90 liter volumes, perform leak tests and compensate for media temperature changes.



MODEL 9500 – LEAK TEST SYSTEM FOR TRANSMITTERS

The Model 9500 is specifically designed to test for small pneumatic leaks in single and dual port pressure transmitters. It is predominately a 'black box' device that communicates and shares data with a host system. Some front panel indicators provide status and a Pass/Fail indication to the user.



MODEL 17712 – REMOTE QUARTZ TRANSDUCER MODULE

The Remote Transducer Module is an independent Quartz Resonance Sensor having a one year calibration cycle. It is configured for wet outside environments and distant pressure monitoring (up to 4000 feet or 1300 meters) using RS-485 serial communications.



Miscellaneous Accessories and Support Equipment

MODEL 73 – SHOP AIR PRESSURE BOOSTER

The Model 73 Shop Air Pressure Booster generates 325 to 750 psi from 70 to 150 psi clean dry shop air source. The Model 73 consists of a single 5 to 1 pressure boost stage with limits for speed control and maximum output pressure control. The unit is purely a mechanical device and has no electrical requirements.



MODEL 74 – LOW PRESSURE BOOSTER

The Model 74 Low Pressure Booster generates 1500 psi Nitrogen using a 130 psi dry nitrogen source and 85 psi shop air drive. The system consists of a 4 to 1 primary stage pressure booster and a 15 to 1 secondary stage booster. Each pump is controlled by a high flow regulator to set the output pressure of the stage and a drive speed valve to control the rate at which the pump operates.



MODEL 75 – RACK MOUNTED PRESSURE BOOSTER

A Haskel Air Pressure Booster reconfigured for mounting in a standard 19 inch 6U (10.5 inch tall) instrumentation rack. Minimum input pressure source is 300 psi. Maximum output pressure is 6500 psi. Unit can be supplied with external air compressor for low pressure drive source of 80 to 120 psi.



MODEL 9420A – REMOTE TRANSDUCER DISPLAY MODULE

The Model 9420A is a small LCD display and power supply for the Mensor Series 6010, 6100 and the 6180 digital pressure transducers. It provides a desktop or rack mountable display for calibrating, testing, or permanent readout of these Mensor transducers.



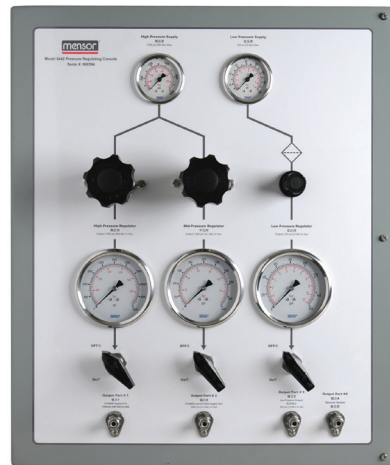
CPG2500A – DATA LOGGER

The CPG2500A is a portable pressure monitor with data logging function. It retains 1-second data continuously for a year or more. An internal battery allows unit to operate off-grid for multiple days.



MODEL 9442 – PRESSURE REGULATING CONSOLE

The Model 9442 is designed as an accessory to the Mensor Workbench Model 9440. It is engineered to accept two pressure inputs and a vacuum input and provide three regulated pressure outputs and a vacuum output port. A high pressure nitrogen supply input (up to 7000 psi or 500 Bar) can be regulated to 6500 psi or less for operation with a CPC8000 Pressure Controller or 1500 psi or less for a CPC6000 Pressure Controller. A low pressure shop air supply is intended for use with low pressure CPC6000 Pressure Controllers and other low pressure devices. A vacuum pass-through port provides convenient access to vacuum and is located next to the regulated pressure ports.



MODEL 82 – VACUUM PUMP/COMPRESSOR SET

The Model 82 is available in single or dual vacuum outputs, single or dual pressure outputs or single vacuum and pressure outputs.
Vacuum up to 28.5 inHG and pressure up to 50 psig.



LEAN CLEAN GREEN

Mensor is dedicated to manufacturing quality products in a “Lean, Clean and Green” environment. All of our processes are regularly evaluated to promote continuous improvement. Kaizen events, 5S, and SQDC boards are used on a regular basis to promote lean manufacturing. Our 5S program is called “5S plus”. The traditional 5S program represents Sort, Set, Shine, Standardize and Sustain, where “5S plus” includes Safety. We have containers designated to recycle paper, metal, electronics and cardboard. Waste is recycled to do our part in keeping our environment green.

The calibration program at Mensor is accredited by A2LA as complying with both the ISO/IEC 17025:2017 and the ANSI/NCSL Z540-1-1994 standards. Mensor is registered to ISO9001:2015



Mensor
201 Barnes Drive
San Marcos, Texas 78666
Phone: 512.396.4200
Fax: 512.396.1820
Website: www.mensor.com
Email: systems@mensor.com