

# Series 9000



## Automotive Mobile Cart Systems



WIKAI

Calibration Line



With over three decades of experience in the design and manufacture of precision pressure instrumentation, Mensor has the unique capability to offer customized solutions to meet individual requirements and applications. One example of that capability is the Series 9000 Automotive Mobile Cart Systems.

The Series 9000 Mobile Cart Systems provide the ability to calibrate a variety of automotive sensors and transducers typically used in automotive test stands. The Mobile Cart System allows the technician to take the pressure calibrator to the test stand, minimizing down-time and eliminating the time-consuming process of removing and reinstalling several pressure sensor's on the test stand for re-calibration.

The key to Mobile Cart System is the pressure calibrator/controller. Customers can choose from the wide range of automated pressure calibrators offered by Mensor, including the CPC 6000 Automated Pressure Calibrator which features up to 8 ranges in a single instrument with an accuracy of 0.01% of each range. Mobile Cart System can incorporate one or multiple pressure controllers depending on the pressure range and performance requirements - even up to 6000 psi.

To provide a turn key solution - Mobile Cart Systems can be equipped with vacuum pump(s) to allow vacuum/absolute calibrations, and rechargeable gas cylinders for the pressure supply system or a pressure booster for high pressure cart systems.

The Mobile Cart System also provides space for storage of cables/hoses/fittings, documentation, and laptop/notebook computers. Pneumatic tires minimize shock/vibration being transmitted to the internal system components and insure maximum mobility.

## Features

- Self contained, mobile system
- Automated pressure calibrations
- Low pressure and high pressure versions to 6000 psi
- Accuracies to 0.01% FS
- Liquid trap to prevent contamination
- Built-in safety features
- Local or remote operation
- Retractable power cord
- NIST traceable

## Options

- Vacuum pump system
- Pressure booster or gas bottles
- Multiple pressure controllers

Examples of some of the carts designed for various customers is presented on the back page. Mensor can customize any of these systems or provide a newly designed system to meet the pressure calibration requirements of the automotive industry.

## Automotive Cart Systems

Most cart systems are built on heavy-duty industrial cabinets with pneumatic tires and a foot brake. Carts can accommodate most any Mensor pressure controller/calibrator, typically on a rubber mat, stainless steel or wood surface. The lower portion of the cart includes drawers and cabinets to accommodate hoses, cables, fittings/adapters, and documents. PC's can also be provided for software driven systems. In a separate enclosed area in the lower portion of the cart, vacuum pumps

to allow the pressure calibrator to control subatmospheric pressures can be accommodated along with re-chargeable gas cylinders (up to two 40 cu.ft. bottles to 2100 psi) along with check valves and regulators. For high pressure systems, a gas booster can be integrated into the cart. With internal air and vacuum sources, the only external requirement is AC power. An available retractable power cable reel allows the cart to be powered up to 30+ feet away.

### Model 9406 High Mobility Cart

This cart can be equipped with single or dual Mensor CPC 6000 Automated Pressure Calibrators or the Model 8100 Quartz Pressure Calibrator. It includes a vacuum pump, rechargeable bottle air supply, dual pressure regulators to support both the high pressure and low pressure controller and a pressure volume controller. This cart has extreme mobility due to the 6 wheel design with 360 casters and moving hooks for transporting and crane lifting. Lockable drawers are available for tools, hoses, documentation or a laptop computer.



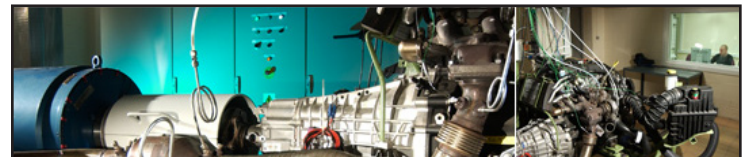
### Mensor Model 9403 High Pressure Cart

This cart includes the Mensor PCS 400 and Model 410 High Pressure Control Unit for calibrating pressure devices up to 6000 psi (400 bar). The cart includes a pressure booster capable of generating pneumatic pressures up to 6500 psi from a 300 psi external supply to provide the supply pressure. This system comes equipped with regulators, high pressure hoses and a retractable power cord. Due to the weight of the booster, this cart is typically supplied with hard rubber tires to provide maximum stability.



### Model 9401 Low Pressure Cart

This system can be configured using the Mensor CPC 6000 or the Model 8100 pressure calibrator(s) with full scale ranges as low as 10 inH<sub>2</sub>O. The cart can include either a pressure pump, or a rechargeable gas bottle/cylinder pressure supply in addition to vacuum pumps for calibrating low pressure and sub-atmospheric sensors, transducers or gauges. Four locking drawers can be used for hoses, laptop, tools and documentation storage.



## Other Products and Services

Mensor provides a variety of products such as smart sensors for pressures to 6000 psi (410 bar), pressure indicators and barometers, air data test sets, and other pressure controllers such as the Model CPC 6000 Automated Pressure Calibrator. Mensor also provides world-class customer service and technical support with fast turn-around times.

All Systems are provided with a calibration report, including data, traceable to NIST. The calibration program at Mensor is accredited by A2LA as complying with both the ISO/IEC 17025:2005 and the ANSI/NCSL Z540-1-1994 standards. Mensor Corporation is registered to ISO9001:2008.

Represented By:



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