

NEW PRODUCT DESIGN

University Professor Gives OMEGA® an A+ in Pressure Engineering!

CUSTOM ENGINEERING LEVEL II



A CASE IN POINT

A university had several fluid dynamics labs set up in two different wings of its engineering facility. The professor in charge of the labs was searching for the most cost-effective way to monitor the test parameters in each location.


PROBLEM

Because the test labs were not all used at the same time, the professor wanted a single, portable read-out unit that incorporated the required pressure equipment and could be easily moved between labs. He found, however, that the combination of needed products was so unusual that no off-the-shelf device met his needs.

OMEGA® SOLUTION

OMEGA's pressure engineering specialists worked with the custom engineering team to design and manufacture a portable case that housed and integrated all of the pressure products the professor specified. This ready-to-use system satisfied the professor's calibration needs while allowing equipment operators to move from lab to lab with minimal effort. Tests could be performed with flexibility, speed, and accuracy.

The custom-engineered portable calibrator comprises extremely precise pressure transducers, pressure gauges, meters, a power supply, and pressure manifolds, all easily accessible within a sleek, protective carrying case. The pressure transducers, which were particularly important to the professor, employ OMEGA's advanced sputtered thin-film sensor technology.

In the sputtering process, gauge material is accelerated within a vacuum chamber, molecule by molecule, toward a sensor substrate. The molecules impact with the energy of several thousand electron volts—sufficient to penetrate several atomic layers and produce the most stable and reliable bond possible. This unique molecular bonding ensures superior long-term calibration reliability, because the sensors have no cement bonding, which can degrade with time and weaken at high temperatures. In real-world applications that demand ruggedness for tough operating environments, this solid-state sensor technology excels. The cost of this unique product: \$4750. 



\$4750

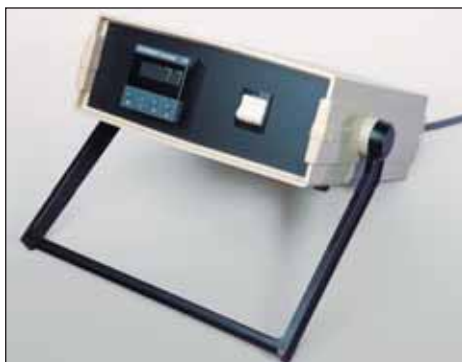


Pressure Transducers and Panel Meters Mounted in Carrying Case Permit Easy Calibration Checks at Remote Locations

...If You Don't See What You're Looking For, Ask Us!



Both Pressure and Temperature Displays Conveniently Installed into a Durable Case **\$1135**



Installation of the OMEGA® CN9000A Controller in a Benchtop Case Make Measurement Safe and Affordable **\$570**



Expanded Benchtop Assembly Allows for Compact Thermocouple Test Set-Up **\$1380**