



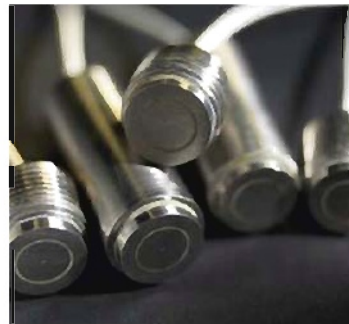
Circular Chart Superecorder

Omega's Universal Circular Chart Superecorder is a portable device that comes in four models: temperature and relative humidity, dual thermocouple, dual process, and pH and RTD temperature. Located on the front panel is a keypad for programming and a large, bright, dual backlit display. An RS232 PC interface allows the user to download recorded data. The unit includes double-sided chart paper and a magnetic hub. The temperature/relative humidity model also comes with Windows-based PC application software to log data in real time, download recorded data, or rescale chart paper. A wireless temperature/relative humidity probe is offered as an option.



Miniature pressure switches

A-Series miniature stainless-steel pressure switches from Ashcroft are designed for tough OEM and industrial applications requiring a durable miniature switch. Available with explosion-proof and watertight enclosures, the switch features a refined piston actuator that can be ranged up to 2000 psi while enduring a working pressure of 5000 psi. Small dimensions, a choice of connections, and a field-adjustable set point make the switch easy to configure and install in nearly any alarm, shutdown, or control application.



High-temperature displacement sensors

Capacitex's high-temperature noncontact displacement sensors are used in applications such as aircraft engine testing to measure displacement of up to 0.4 in. The sensors measure displacement within extreme temperature environments where resolution of 1 µm or better is a requirement. Operating in temperatures of up to 1000°C, Model HPC-75-V/S displacement sensors measure thermal expansion, axial expansion, and radial runout to confirm that dimensional design parameters meet specifications at extreme operating temperatures.



Portable 3-D laser scanner

M7 Aerospace is using Z Corp.'s ZScanner 700 PX portable laser scanner to scan aircraft to obtain precision engineering data for repair, modification, and reverse engineering. M7 recently used the scanner to capture the entire surface of a Fairchild Metroliner in a resolution of 0.1 mm in three days. The same job would have taken weeks, months, or years with other scanning technology. The scanner is handheld and self-referencing; it automatically determines its location in space without the need for external orienting devices. The user sweeps the scanner over the target surface and "paints" it with complete freedom of movement around large objects such as aircraft. As the user paints with the scanner, the digitized object appears on a laptop screen, eliminating costly and time-consuming post-processing.



Forming simulation environment

Simufact Engineering GmbH's version 9.0 of Simufact.forming includes more than 100 new features and improvements to assist users in creating robust and reliable simulation models. The software features dual-solver technology with the potential to access the latest solver technologies of MSC.Marc and MSC.Dytran from MSC Software. The version also focuses on new application modules (open die and radial forging processes, ring rolling, and sheet metal forming), which allow a fully automated process simulation, including optimized meshing strategies. The ring mesher offers an efficient method for executing simulations of any forming process with axial parts, providing accurate results and a precise geometry with a minimum of elements. The sheet mesher allows the powerful simulation of sheet metal forming, starting with a 3-D CAD model of the blank sheet.