



What's New

INSTRUMENTATION

Universal Transmitter is Designed for Vibration Monitoring



The Model 682A16 Universal Transmitter enables 24/7 vibration monitoring of process machinery, including pumps, motors, fans, and other essential rotating equipment, providing critical information that

can help operators avoid costly downtime and increase productivity and profitability. This transmitter works with the firm's 4–20-mA sensors and accelerometers, and can be used with existing programmable logic controllers (PLCs), distributed control systems (DCSs), and supervisory control and data acquisition (SCADA) systems. The 682A16 provides loop power for 2-wire, 4–20-mA sensors and inductively coupled plasma (ICP) excitation for analog 8-mV/g to 120-mV/g accelerometers. It also accepts a variety of sensor input signals, including mA, thermocouple, resistance temperature detector (RTD), linear resistance, and potentiometer data. It is fully programmable, with current output, voltage output, and two programmable setpoints. It also supports password protection for security and memory retention of all set-up parameters.

**IMI Sensors,
Div. of PCB Piezotronics, Inc.**

www.pcb.com

Inline pH Sensor Design Prolongs Probe Life

The effectiveness of conventional inline pH sensors is often reduced or completely lost if the probe tip dries

out during job changes. The Norcross In-Line pH Sensor has a patented integral reservoir that traps fluid to keep the probe tip wet and prolong probe life. Installed directly in a fluid line, the sensor monitors water-based inks, foods, pharmaceuticals, and other solutions for which pH must be controlled. The sensor's transmitter converts its mV signal to 4–20 mA for transmission to a controller. The sensor can be used with the firm's VISC and MP-2000 controllers, which automatically add amine or other ingredients as required to maintain a pH setpoint.

Norcross Corp.

www.viscosity.com

OPERATIONS AND MAINTENANCE

Motor Works in Tough Environments



The XP100 line of motors is designed for the hazardous operating conditions found in the petrochemical and chemical processing, mining, and grain handling industries. These explosionproof motors have UL and CSA certification for gas and dust environments. They are available with ratings of 1–300 hp, and can be modified to meet specific customer needs. The motors have an all-cast-iron construction for high structural strength, and a stator insulation system that can withstand voltage spikes. In addition, the XP100 motors feature epoxy enamel paint, polycarbonate

cooling fan, nonhygroscopic insulation, corrosion-resistant hardware, and stainless steel nameplate.

Siemens Industry, Inc.

www.sea.siemens.com

Compact Vacuum Ejectors Handle Small Parts



Using compressed air at low feed pressure, the piCOMPACT10 manifold-mounted vacuum ejectors are suitable for pick-and-place operations where efficient handling of small, heavy parts is crucial, such as in electronics, semiconductor, and medical applications using plastics or metal. The firm's MICRO COAX technology provides three times more vacuum flow than similar products, reducing energy consumption by 30–50% compared with traditional ejectors. The increased vacuum flow strengthens product grip, which increases pickup speed, minimizes product damage, and reduces waste. Faster release of products from the suction cups also provides efficiency gains. The piCOMPACT10 ejectors are smaller and lighter than conventional ejectors. They can be easily integrated into existing production lines with no modifications required, and can quickly be configured to meet individual manufacturing needs. Four versions are available for use in a variety of systems, including those that require very low feed pressure or extra-deep vacuum levels.

Piab

www.piab.com