

Technical Contact: Karl Klinger  
Phone: 610-524-2817; email: karl.klinger@ifm.com

**ifm efector Introduces Pump Diagnostic Pressure Sensor  
that Detects Cavitation, Trapped Air and Blockages**

EXTON, PA – May 18, 2007– ifm efector inc. introduces a new line of pump diagnostic sensors that detect potential pump damage caused by cavitation, trapped air or gas, blockages and deposits. The new PIM Series pressure sensor continuously monitors a pump to provide system pressure and independent diagnosis of the pump's condition.

The compact sensor measures the high-frequency pulsations of a properly operating pump and stores it as a reference. If changes occur in the system, the pulsations will change. These changes are immediately detected by the sensor. If a critical pump condition occurs, such as cavitation, the PIM Series pressure sensor will provide an alarm signal to a plc. Any disturbances around the pump such as trapped air in the medium, clogged filters, deposits in pipes or improperly opened valves are also monitored.

The sensor and its teach function are quickly setup using the numeric pushbutton display. The sensor's display alternately provides the system pressure numerically and the operating state of the pump via a trend display that graphically depicts the operating-state of the pump.

The sensor's second output can be configured as a switching output with hysteresis or window function or as a scaleable analog output. Due to the high overload resistance of the ceramic capacitive measuring cell, the sensor is especially suited for switch-off in case of overpressure. FDT programming software enables the display of the measured values, analog output, limit values and the parameter setting of the thresholds for diagnosis.

The condition-based monitoring of the pump leads to longer maintenance intervals. The up-time of the complete plant is increased – damage caused by poor operating conditions of the pump is avoided.

(more)

For additional information on the new ifm efector speed monitors and other ifm efector products, contact ifm efector inc., 782 Springdale Drive, Exton, PA 19341. Tel: 800-441-8246 • Fax: 800-329-0436 • Website: [www.ifmefector.com](http://www.ifmefector.com).

ifm efector inc. is a premier technology partner for sensors and controls. Products include proximity switches, photoelectric sensors, fiber optics, condition monitors, speed monitors, pressure sensors, flow sensors, temperature sensors, level sensors, valve position sensors, mobile control solutions, ID systems, AS-i networking and Safety at Work products.

# # #

5/07