



Magazine

## Transducers said to cut EMS line installation cost 30-40%.

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MINNEAPOLIS--Mamac Systems Inc. here is marketing a line of frequency-output temperature, pressure and current transducers that can reduce by 30 to 40 percent the cost of adding points to the Anderson Cornelius MCU series facility management systems, according to S. Asim Gul, Mamac's president.

Using the transducers is less expensive because it eliminates the need for intermediate signal conversion equipment that was formerly needed to connect sensors to the system, he explained.

The Mamac transducers convert the signal internally and provide an output signal that is readily usable by Anderson Cornelius computer. The units are tied directly to the CPUs of the model MCU-500 and MCU-250 manufactured by Anderson Cornelius Co., Eden Prairie, Minn., according to Gul.

A spokesman from Anderson Cornelius confirmed that the Mamac transducers can eliminate signal conversion equipment.

The Mamac TE-210 temperature transducer measures space, duct or water temperatures between minus 30 degrees F. and 500 degrees F., and will cost \$125 with frequency output, Gul said.

In addition, Mamac makes four frequency-output pressure transducers for use with the systems, Gul said.

The PR-240 measures pressure from 0 to 30 pounds per square inch (psi) and costs \$250 for frequency output, Gul said. The PR-260 measures pressure from 0 to 5,000 psi, and 0 to 30 inches mercury suction (for negative pressure measurement, at a cost of \$420 for frequency output, he added.

The PR-270 measures pressure from one inch to 10 inches water column, or from 0.036 psid (differential) to 0.36 psid, he added. Cost for a frequency output is \$400.

The PR-280 measures pressure from 10 inches to 5,540 inches water column, or from 0.36 psid to 200 psid, for a cost of \$470 with frequency output, Gul said.

Mamac also manufactures a current transducer, the CU-230, which measures from 0 to 1,200 amps, Gul said. Cost for the frequency output current transducer is \$150.

Without the Mamac transducers, a voltage or current sensor would require installation of a Remote MicroInterface Module (RMI) if a few points are being installed, or a combination of a Remote Termination Unit (RTU) and signal converter if a higher number of points are being installed in a small area, the Anderson Cornelius spokesman explained. Both units are manufactured by Anderson Cornelius.

The RMI will cost from \$125--to provide signal conversion for one point--to about \$400 to provide conversion for up to four points, he said.

An RTU, which provides power to sensors and houses the signal converter, will cost \$600 to \$1,200, depending on the number of sensors connected to it, the Anderson Cornelius spokesman said. In addition, the signal converter will cost between \$100 and \$150 per point, he added.

Mamac Sytems Inc. is located at 5250 West 73rd Street, Minneapolis, Minn. 55435.

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