



## **K-TEK's Wireless Transmitter & Receiver Provide Secure, Low Cost Transmission of Level Data**

Prairieville, LA (June 29, 2009) -- K-TEK, a leading manufacturer of state-of-the-art instrumentation for level, pressure, and temperature measurement, has announced the availability of the **DX80 Wireless Transmitter & Receiver**, a low cost method for transmitting data between process sensors and higher level systems, such as DCS or SCADA systems. Designed for robust, secure communication, the DX80 includes two devices, a **Node** (wireless transmitter) that resides in the field and interfaces to K-TEK's precision measurement devices, and a **Gateway** (wireless receiver) that resides in the main control panel and interfaces to a PC or PLC. Each Node accepts up to two (2) analog and two (2) discrete switch inputs. Each Gateway accepts up to 55 Nodes.

The **DX80 Wireless Transmitter & Receiver** communicate via a Frequency Hopping Spread Spectrum (FHSS) radio system that ensures the message is delivered and is secure. By hopping from channel to channel, multiple radio networks can use the same frequency range without creating interference. Wireless communication can be established between any of K-TEK's 4 - 20 mA level transmitters and switches: the LM80 laser, the KSONIK I ultrasonic, the KCAP300 3-element probe, or the GP50 vibrating fork.

"Wiring hard-to-reach locations is a pervasive problem in manufacturing," stated Kevin

Hambrice, Director of Marketing and Customer Service at K-TEK. "The DX80 wireless system is mobile, flexible, and scalable. It reliably transmits the status of all I/O points and continuously monitors the health of each and every sensor on the network. It then delivers a variety of field measurements across the plant, to PCs, PLCs, or DCS's."



*The DX80 Wireless Transmitter & Receiver transmit data between process sensors and higher level systems.*

### **Reliable & Secure Communications**

The **DX80** is available in two different models: the 900 MHz frequency (USA, Canada, and Australia) or the 2.4 GHz (rest of world) ISM (Instrumentation, Scientific, & Medical) band. It penetrates walls and objects, and bends around obstacles better than higher frequencies. The signal range is three (3) miles, line of sight, and especially suited for tank farms; plastic pellet, cement, and aggregated silos; and hydrocarbon tanks.

The **K-TEK Node** can input two digital and two analog signals. The **K-TEK Gateway** can output two digital and two analog signals; it includes a Modbus RTU for connection to higher level control systems. The DX80 can also be connected directly to the K-TEK HMI color display for a standalone, wireless system.

The **DX80** wireless network includes an embedded site survey tool to ensure optimal performance. This function analyzes the strength of the radio signal between the Gateway and a specified Node. Signal results – the number of data packets received or missed – are displayed in a green (excellent), yellow (good), red (marginal), or missed format.

The **DX80 Wireless Transmitter & Receiver** are each housed in IEC IP67, NEMA 6 rated enclosures for long-lasting performance, even in rugged environments. They operate using 10-30 VDC input power (10-24 VDC for European applications).

### **Pricing & Delivery**

K-TEK's **DX80 Wireless Transmitter and Receiver** are available for immediate shipment. Prices start at \$719.

### **About K-TEK Corp.**

K-TEK is a leading manufacturer of state-of-the-art liquid and solids level instrumentation. Founded in 1975, the company pioneered the **KM26** magnetic level gauge with extruded outlets and precision engineered floats. The company continues to set the pace in the industry with such innovations as **AccuTrak™**, the first SIL 2 certified (IEC 61508) magnetostrictive level transmitter; **SureShot™**, the first low cost, all digital design laser level and distance transmitter; **Resonator™**, the first vibrating fork switch that features a one-step, external calibration process, eliminating hassles with equipment covers; and **MT5000**, one of the industry's first guided wave radar level transmitter with full waveform digital readout and display. The company also manufactures ultrasonic transmitters, RF capacitance switches & transmitters, and a full line of point level switches and field controllers. K-TEK's products are used in over 350,000 installations worldwide in such applications as chemical processing, oil and gas production, power generation, pulp and paper processing, mining and construction, pharmaceutical manufacturing, and plastics manufacturing. K-TEK provides level solutions anywhere and anytime, supported by a network of global manufacturing facilities and technical application expertise in Baton Rouge, Houston, Netherlands, India, China, and South Africa. For more information, visit <http://www.ktekcorp.com>.

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