

TRACE

The New VRT Transponder



AMCO Automated Systems recently announced the launch of its new automated meter reading product, TRACE VRT® (Virtual Real Time) Transponder Model 1G.

The transponder, created exclusively for gas meter use, is a combination encoder and radio frequency transceiver that was designed to provide remote meter readings that include time of use and history information.

“The new transponder offers gas utilities a quick and efficient alternative to the meter reading method they presently use,” said Joe Stever, vice president, AMCO Automated Systems. “This product is one example of how our company is aiming to change the industry.”

Transponder users are assured accurate readings since the transponder recognizes and responds only to its own unique serial number. The transponder also calculates an error detection code and adds it to its transmitted data stream for verification by the interrogation unit before the data is stored. Once a transponder recognizes an interrogation signal containing its unique serial number, the transponder transmits a data stream that includes the current meter reading, tamper status and error detection code value. The maximum transmission time is 15 milliseconds. If requested from the interrogation device, the transponder can also transmit meter reading history, including time of use data. The interrogation validates the data, performs an audit comparison and stores the data for later uploading to an industry standard PC.



The transponder with memory.

Product specifications

- ▶ Power source: Single lithium thionyl chloride battery, 2.75 amp-hr capacity. Calculated battery life in excess of 20 years
- ▶ Display: Original meter index, available for visual reading
- ▶ RF Transmitter: 414.5 MHz, ±0.5 MHz
- ▶ RF Receiver: 451.35; -62dBm sensitivity
- ▶ Field strength: 4000 mV/m @ 3m
- ▶ FCC Compliance: Part 15, subpart D; requires no user license; FCC ID G8JVRT01
- ▶ Temp-operating: -34°F to 158°F (-30°C to 70°C)
- ▶ Temp-storage: -40°F to 185°F (-40°C to 85°C)
- ▶ Humidity: 5 to 95% RH non-condensing
- ▶ Ultraviolet: Enclosure is UV protected for outdoor installation
- ▶ Construction: High impact, weather-proof plastic case; conformal coating on all internal components
- ▶ Hardware: Seal screws, mounting bracket and seal hardware are non-corrosive
- ▶ Weight: 12 oz fully assembled

For more information on the new TRACE VRT® transponder, you can visit:

www.amcoautomatedsystems.com

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