

Translator Encoder Register

Features

APPLICATIONS: The Mueller Systems Translator Encoder Register is available on all current model Hersey meters for use in Automatic Meter Reading Systems (AMR). The register allows accurate readings to be obtained conveniently from residential, commercial and industrial meter installations in hard-to-access locations. Using the Translator Encoder Register with an AMR/AMI system can increase the efficiency and accuracy of the meter reading process.

The register is a true absolute encoder register that provides direct electronic transfer of meter reading information from a current Hersey meter to any of a number of AMR/AMI device options. The register sends data in ASCII format (American Standard code for Information Interchange), a standard format used by virtually all modern computers and communications devices. The Translator Encoder Register uses the same open architecture variable length protocol in ASCII format as is used by other commonly used encoder registers.

The register is available for meter sets installed indoors with a run of wire up to 300 feet to an outside wall mounted touch pad. For pit applications, the Translator Encoder Register is factory wired and potted to provide reliability in moist conditions.

With minimal cost and labor, the Translator Encoder Register can be retrofitted to current Hersey meters already in service.

CONFORMANCE TO STANDARDS: Complies with AWWA Standard C707 for Encoder Remote Reading Systems, American Standard Code for Information Interchange (ASCII).

CONSTRUCTION: The Translator Encoder Register is permanently sealed to exclude dirt and/or moisture infiltration. The register has a straight reading odometer-type display, and 360° test circle with center sweep hand and low flow (leak) detector. A tamper-proof locking feature is provided to resist tampering with the register. For pit applications, the wire assembly is factory potted for moisture resistance.

OPERATION: The Mueller Systems Translator Encoder Register uses an absolute encoder to directly read the actual position of the index odometer wheels, when interrogated by a reading device (Touch Probe or Radio MIU). The reading device provides all necessary power. There are no pulse outputs or memory modules to program and the register has no battery.

When an AMR/AMI device interrogates the register, the Translator encoder communicates to the device in ASCII computer language the absolute meter reading, and an eight-digit identification number. Any error or nonread is immediately indicated by the meter reading equipment, providing virtually error-free reading.

All Translator Encoder Registers are standard with full 6-wheel encoding, and have a 6-wheel odometer assembly for direct manual reading. The electronically collected data will depend upon the particular requirements of the utility. Utilities billing in common units, such as thousands of gallons or hundreds of cubic feet, are able to use the electronic meter readings without performing intermediate calculations. This can be done by specifying 4, 5, or 6-wheel encoding Translator Encoder Registers.



Translator™

Materials and Specifications

MODEL	Translator
REGISTER TYPE	4, 5 or 6 Wheel Absolute Encoder
SIZES	All Current Hersey Meters
TEMPERATURE RANGE	33°F to 120°F
CABLE	22 AWG 3-strand wire
MATERIALS	Grilamid Lens, Copper bottom, Self-lubricating Thermoplastic Gears, Ceramic Magnet, Stainless Steel Shafts.

AMR/AMI Compatibility


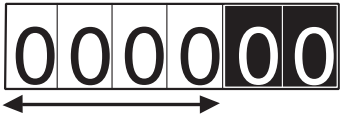
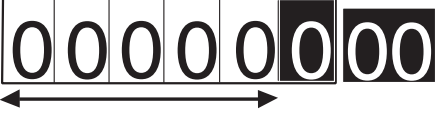
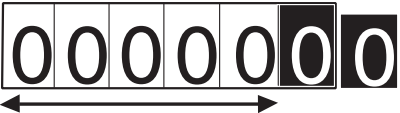
- Mueller Systems Hot Rod AMR Solution
- Mi.Net™ AMI Solution
- Mueller Systems EZ Reader™ Software
- Versa Probe®
- Itron® Meter Interface Units
- Many other AMR/AMI Systems

Dimensions

Model	Application	Wire Length
Translator	Inside Meter Setting	Up to 300'
Translator Pit	Pit Meter Setting Wiring factory installed	5' or 25'

Electronic Reading Values

Effective 2006 all 5/8" through 1" and 1-1/2" through 2" Mueller Systems Translators are offered with standard visual read odometer wheel configuration in either 1000 gallon or 100 cubic foot registration. Electronic output for all meters is indicated by a label on the side of the register. The label will indicate 4, 5 or 6 wheel electronic resolution by the number of Xs on the label.

Sizes 5/8", 3/4" and 1" Hersey Meters
Standard Visual Resolution  1,000 Gallons
 100 Cubic Foot
Sizes 1-1/2", 2", 3" MVR, 3" MFMs and 3" Horizons
 1,000 Gallons
 100 Cubic Foot

All other Hersey meters offer Electronic Registration in 1000 Gallons or 100 Cubic Feet

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