

Mueller Systems Mueller Encoder Eight (ME-8)

ELECTROMECHANICAL REGISTER TECHNOLOGY

The Mueller Systems Mueller Encoder Eight register (ME-8) is now available for use on all current Mueller Systems positive displacement meters in 5/8" through 2" sizes. Utilizing a heat treated tempered, glass lens and corrosion resistant copper can to house the register light tubes, electronics, self-lubricating gearing, and drive magnet, the ME-8 register delivers extraordinary functionality and value when paired with the latest metrology and AMR/AMI solutions available from Mueller Systems.

The ME-8 register provides eight digits of electromechanical odometer wheels for a visual display you can always count on. A label located on the side of the ME-8 register provides additional information specific to the part number, description, and the number of digits being electronically transmitted from the device. A 2D bar code replicates this data so the register information can be obtained from a bar code scanner. Individual customer specifications are maintained on file in the Mueller Systems manufacturing facility to provide specific programming parameters for each customer.

The ME-8 is compatible with all bayonet style locking register designs offered on Mueller Systems current positive displacement meters. The register is mechanically tamper protected by the unique Mueller Systems locking pin making tampering readily apparent to field technicians. The register and housing can be replaced without removing the meter from the service line when required due to vandalism or damage.

Nicor, Itron in-line cable connections or flying lead wire options provide industry standard connections for field installation in convenient 5' and 25' lengths. AMR/AMI units can be ordered with the mating Nicor or Itron connector to simplify installation and facilitate investigation of field issues. The ME-8 register uses no hazardous substances within the electronic equipment. The components and solder are all lead free making the ME-8 register another "green" choice.



Mueller Encoder Eight REGISTER

Materials and Specifications

MODEL	Mueller Encoder Eight Register (ME-8)
REGISTER TYPE	Absolute Encoder Register
SIZES	All 5/8" through 2" Positive Displacement Meters
STANDARDS	Manufactured and tested to meet or exceed all applicable parts of ANSI/AWWA C707 Standard and the American Standard Code for Information Interchange (ASCII)
TEMPERATURE OPERATING RANGE	14°F (-10°C) to 176°F (80 °C)
STORAGE TEMPERATURE RANGE	-40°F (-40°C) to 185°F (85°C)
CONNECTION OPTIONS	5' or 25' Nicor Connector, 5' or 25' Itron In-Line Connector, Integral Hot Rod or Mi.Node with no exposed wire, 5' or 25' wired Hot Rod, or Mi.Node with factory potted connections
MATERIALS	Register housing and lid - thermoplastic; Register lens - glass; Display - 8 digit visual resolution and up to 8 digit electronic resolution with Mueller Systems AMR/AMI systems
AMR/AMI COMPATIBILITY	Mueller Systems Hot Rod AMR system, Mi.Net AMI system, and other AMR/AMI systems that can utilize the Mueller Systems standard encoder protocol output. Touch pad compatibility

Mueller Systems

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The strong register housing is permanently etched with a unique, never duplicated ten digit ID number and the date of manufacture of the meter and register. A plastic lid provides protection from the elements and the tempered glass lens permits installation in the harshest environments.

OPERATIONAL MODE:

The ME-8 register detects the rotation of the four pole drive magnet incorporated into the measuring element of the meter. As the meter measuring element turns, the drive magnet inside the register turns at a one to one ratio, capturing and displaying granular registration to provide exceptional accuracy for billing resolution of the utility's choice. Mueller Systems always recommends you order the ME-8 register with 8 digit electronic resolution to provide the best granularity possible.

When interrogated by an AMR/AMI device, the ME-8 register communicates the unique 10 digit serial number, up to 8 digit electronic reading in ACSII format where it can be recorded and maintained within the reporting structure of the AMR/AMI system and transferred to billing. The eight digit register resolution permits utilities to realize maximum revenue potential, be proactive in leak detection, manage resource conservation, and use event and duration data to manage their systems more effectively. Whether it's dispatching personnel, identifying leaks, theft, billing conflict resolution, or rewarding their customer base for conserving water during difficult times, the granular data provided by the ME-8 register makes tough jobs easier.

FIELD TESTING

The dial indicator on the face of the ME-8 register provides granular resolution regardless of the size of the meter or registration. 5/8" through 2" meters provide resolution down to hundredths of a gallon, thousandths of a cubic foot and ten thousandths of a cubic meter. 1.5" through 2" meters provide resolution down to tenths of a gallon, hundredths of a cubic foot and thousandths of a cubic meter.

CONFORMANCE TO STANDARDS:

Mueller Systems ME-8 encoder register complies with the latest revision of ANSI Standards and C707 for Encoder Remote Reading Systems as well as the American Standard Code for Information Interchange or ASCII.

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CONSTRUCTION:

Mueller Systems utilizes a UV stable, molded enclosure and lid made of thermoplastic to permanently house the ME-8 register. A heat treated, tempered glass lens provides a scratch resistant barrier to inhospitable conditions in all environments. A variety of integral and wired AMR/AMI options are available to provide solutions for every application.

MAINTENANCE:

The Mueller Systems ME-8 encoder register is designed and manufactured to provide a 20 year service life with virtually no maintenance required. Register locking pins and lids are available as replacement components in the event of vandalism or the need for meter retrofits on currently manufactured PD meters.

The SSE register will be introduced in phases based on size. the 5/8" PD meters will be developed first. These will be followed by the 3/4", 1", 1.5" and 2" sizes in that order. Initial 5/8" availability is anticipated to begin in August 2017 and conclude by the end of 2017.