

### Features

**APPLICATIONS:** The Mueller Systems Pulser Interface Unit receives high frequency pulse data which is electronically transmitted from Hersey meters equipped with Translator Frequency Transmitter (FT) registers. The Pulser Unit converts the high frequency pulse signal into a user selectable choice of three signal length durations. Management systems can utilize the converted pulse or dry switch closure for a variety of applications that require either flow totalization or flow rate. The Pulser Unit can easily retrofit to any Hersey meter that is capable of utilizing the Translator FT positional encoder register. A complete system would be comprised of the Translator FT Register, Pulser Interface Unit and customer supplied information management system.

**CONSTRUCTION:** Each Pulser Interface Unit is comprised of hardened, solid state electronics mounted inside a molded thermoplastic enclosure. All internal electronic components are fully encapsulated within potting compound which provides moisture and vibration protection. Labeled, external terminals facilitate connection of the Translator FT Register, an external power source and input to the customer supplied management system. There are no customer serviceable parts inside the Pulser Unit.

**OPERATION:** The Pulser Unit is an integral part of any management system. It converts the pulse signal output by the Translator FT Register into a dry contact switch closure or voltage increase that can be detected and used by various management systems to determine flow totalization and flow rate. The Translator FT Register outputs high frequency pulses created by the drive magnet of the meter to the Pulser Unit where it is converted into a user defined switch closure duration to correlate with flow totalization or flow rate through the meter. This data can be used by an information management system to efficiently track flow and rate information over time and help manage resources.

**INSTALLATION:** The Pulser Unit is installed in conjunction with a Mueller Systems meter equipped with a Translator FT Register. Wire connections are made to the labeled screw terminals of the Pulser Unit (see installation instructions provided with the device) from the Translator FT Register and to the management system to provide power and data input (see the manufacturers' instructions for your system to insure proper connection). Three pulse output terminals provide options for division of the high frequency signal by a factor of 2, 16 or 128 to attain the desired frequency or pulse duration for input into the information management system. The Pulser Unit should be installed in a dry environment or encased in a waterproof enclosure. It is a live voltage, electronic device with exposed terminals and therefore not submersible or splash-proof.

**SIGNAL LENGTH CORRELATION:** Pulser Unit signal length correlation for the three available outputs is provided at [www.hersymeters.com](http://www.hersymeters.com). Select Pulser Unit in the Products/Automatic Meter Reading section or from the Product Shortcuts drop down box. Select the Product Bulletin PDF icon entitled "Pulser Signal Length Correlations" to view the factors specific to the proper meter and size to be used with the device. Minimum and maximum flow correlations are provided in a variety of conversion methods. Refer to the instructions provided with the Pulser Unit for information regarding connections to the Pulser Interface Unit. For additional information, please contact the Mueller Systems Sales and Technical Support Group at 800-323-8584.



Pulser Unit

### Materials and Specifications

MODEL	Pulser Unit
POWER SOURCE	7VDC -32 VDC External Power (typically from information management system)
POWER CONSUMPTION	50mA MAX at 32 VDC
TEMPERATURE RANGE	-40° to 140°F
MAXIMUM WIRE LENGTHS	Translator FT Register to Pulser Unit: 25', 22 gauge wire Pulser Unit to Management System: Up to one mile when utilizing 22 gauge wire and a 32VDC power supply. Variations in wire gauges and supply voltages will affect transmission distances.
DIMENSIONS	Pulser Unit: Length: 3.8" x Width 2.2" x Height 1.8"
ACCESSORIES	22 Gauge, three strand wire is available in 1000' spools: Part #A13015 Translator FT Registers are required to provide the proper interface to the Pulser Unit. Call Mueller Systems and Technical Support for details.

This page intentionally left blank.