

## Features

**APPLICATIONS:** The Hersey Meters Pulser Interface Unit receives pulse data which are electronically transmitted from Hersey meters equipped with Translator registers and a Frequency Transmitter (FT1, FT2 or FT3 dependant on meter type). The Pulser Unit converts the pulse signals into a dry contact switch closure or voltage increase of a specific duration. Management systems can utilize the converted pulse or dry switch closure for a variety of applications. The Pulser System can be easily retrofit to any Hersey meter that is capable of utilizing the Translator encoder register. The System is comprised of the Translator register, Frequency Transmitter and Pulser Interface Unit and sold only as a complete package.

**CONSTRUCTION:** Frequency Transmitters consist of sensors inside a waterproof enclosure or register with 25' of 22 gauge wire. Each Pulser 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 permit connection of the Translator register, an external power source and input to the customer supplied management system. There are no customer serviceable parts inside any of the Pulser System components.

**OPERATION:** The Pulser System is an integral part of any management system. It converts the pulse signal output by the Translator register and Frequency Transmitter into a dry contact switch closure or voltage increase of a specified duration that can be detected and used by various management systems to determine flow totalization. The Frequency Transmitter sends pulses created by the drive magnet of the Translator register to the Pulser Unit where it is converted into the proper format to correlate with flow totalization through the meter. This data can be used by an information management system to efficiently track flow information over time.

**INSTALLATION:** The Pulser System is installed with the Hersey meter per the installation instructions included with the system. Wire connections are made to the labeled screw terminals of the Pulser Unit (see installation instructions provided with the device) 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 permit division by 2, 16 or 128 for signals of the required duration. 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 System and Interface Unit signal length correlation for each of the three outputs is provided with the installation instructions specific to the Translator register shipped with the device. For additional information, please contact the Hersey Meters Sales and Technical Support Group at 800-323-8584.



## Materials and Specifications

- **MODEL** .....Pulser System
- **FREQUENCY TRANSMITTERS 1, 2 & 3**.....Hall Effect sensors potted within an aluminum disc or contained inside the register as required by meter type
- **PULSER UNIT**..... Factory potted and programmed with a thermoplastic enclosure
- **POWER SOURCE**..... 7VDC -32 VDC External Power (typically from information management)
- **POWER CONSUMPTION**.....50mA MAX at 32 VDC
- **TEMPERATURE RANGE** .....-40° to 140°F
- **MAXIMUM WIRE LENGTHS** ..... Translator 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