



DataSource915 Water



Features and Benefits

- ⇒ Easily Configurable for Operation with Most Pulse Output and Encoded Meters
- ⇒ Waterproof
- ⇒ 20 Year Warranty
- ⇒ Open Loop Tamper Detection
- ⇒ Works in an Open Systems Environment
- ⇒ Uses Standard Meter Interfaces and Protocols to Ensure Maximum Compatibility
- ⇒ Competitively Priced
- ⇒ Hand-held, Vehicle-based or Fixed Network Receivers Can Read the Same Transponder
- ⇒ Leak Detection Capability
- ⇒ Lead Free

Application DataSource915 and DataSource915-PIT are radio transmitting devices that permit automatic meter reading of utility meters. DataSource 915 together with a 900 Series Receiver, HandTrackIT® for hand-held use or FastTrackIT® for vehicle-based systems, provides utilities with a fast, cost effective, and efficient means of mass meter reading. The DataSource 915 is also compatible with our latest DataStream fixed network system for an AMI option.

Tamper Detection The transponder has 3 wires that can be connected to the meter. Two of the wires are used for the meter reading, the third is used for tamper detection. The tamper register works by detecting an open circuit in the connection wires. If the wire is cut, the tamper register increments or acts as a flag that a tamper has occurred and an error code is produced and sent to the receiver during the next reading period.

Migration Path DataSource915s can be selectively installed on "hard to read" meters first as a low cost entry into AMR. Manual and RF meter reading can be done on one meter reading route. The same

DataSource915 may be read by hand-held or vehicle-based receivers without change of configuration and is compatible with fixed network operations.

Operation An open systems approach to AMR provides the foundation for the BluTower solution. This enables quick and easy integration into your existing infrastructure. Use of standard interfaces and protocols enables BluTower products to work with many types of billing software systems, hand-held computers, and meters – protecting your investment in existing systems.

Installation DataSource915s are environmentally rugged and can be fitted or retro-fitted in minutes to most currently-available meters. DataSource915s are compatible with the most common switch enclosure and encoder type meters, including those by Actaris, Elster-AMCO, Badger Meter, Hersey Meters, Sensus Metering, Master Meter, Metron-Farnier, Neptune, and Performance.

For installation above ground or in pits with plastic lids use DataSource915 (DS-T9L).

For installation in pits with metal lids use DataSource915-PIT (DS-T9H).

OPERATIONAL AND PHYSICAL CHARACTERISTICS

Wireless Specifications	Operates in the 902 MHz to 928 MHz license exempt ISM band
Operating Temperature	-40°F to +140°F (-40°C to +60°C)
Data Format	Data is sent in fixed length, error checked, encoded data packets
Configuration Options	Utility code, ID number, meter reading, transmission interval
Tamper Detection	Open loop tamper detection allows detection of fraud or vandalism
Waterproof	IP68 at 2m
Weight	6 oz
Dimensions	5" x 3.25" x 1"
Enclosure	ABS plastic housing, ultrasonically welded
Encapsulation	Electronics and battery encapsulated in gel

Standards DataSource915 is certified for operation in the United States under FCC Part 15.247 and to Industry Canada's RSS210.

Battery The Transponder uses Lithium Thionyl Chloride batteries and is designed to last more than 20 years under extreme operating conditions. Such long battery life is possible for several reasons. First, the transponder is a transmit only device and does not require a receiver, which would draw additional current.

Second, when the Transponder transmits, it uses an extremely small amount of energy. Finally, the Transponder is shipped in the OFF position and will only begin transmitting when it has been programmed for operation. This allows BluTower engineers to more accurately calculate the life requirements of the device as opposed to one-and-a-half or two-way devices. The batteries are certified by the manufacturer to have no transport restrictions.

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