Installation Instructions

DataSource915

Description

DataSource915 attaches to the following water meter registers:

- Single pulse,
- Master Meter Dual-Pulse,
- Electronic encoded AMCO Scancoder,
- Electronic encoded (ECR),
- Electronic encoded Neptune / Schlumberger ARB V,
- Electronic encoded ProRead/AutoDetect/E-Coder™ registers.*

*With E-Coder registers DataSource915 will read register ID and reading only.

DataSource915 sends meter data via radio frequency (RF) signal to a receiving unit; HandTrackIT®, FastTrackIT® or CellTrackIT®.

Required Tools & Equipment

The following items are recommended for proper DataSource915 installation:

- 3M® Type UY2 gel-filled splice connectors and crimping pliers.
- Computer running Windows XP®, 2000®, 98® or NT®.
- ConFigIT® device (Mod Strike 14 or higher) and ConFigIT software version 6.5.07 or higher.
- ConFigIT cable, part number 330-190-10 (Lemo) or 320-300-10 (9-pin Dtype).
- 4 AA batteries or power cable.
- HandTrackIT, FastTrackIT, or CellTrackIT receiver with connecting cable.

Mounting Instructions

Mount DataSource915 upright facing the direction of the receiver. Avoid placing DataSource915 on any metal walls or large metal objects.

Configuration & Installation Procedure

1. Connect DataSource915 to the meter register using 3M Type UY2 gel-filled splice connectors and gel cap crimping pliers.
2. If the default settings (see 'Factory Default Settings' section) are suitable for the installation then:
   - DataSource915 can be activated without ConFigIT by using a small bar or horseshoe magnet. Ensure that the magnet is held vertically over the center of DataSource915 just below the stripe.
3. If the default settings need to be changed, use the ConFigIT device and software:
   - After performing as READ, select the register required from the pull down list.
   - To use DataSource915 with ProRead, AutoDetect or E-Coder register, set meter interface mode to 'AutoDetect'.
   - To use ID printed on the side of DataSource915 case, select 'Use current ID' button.
   - To enter new ID, select 'Programmed by User' button and enter ID in the cell below button.
   - Set leak detection threshold to required value.
   - Turn on DataSource915 by setting Transmit Interval (default setting is every 5 seconds) to 5 or 10 secs for FastTrackIt, 10 secs or greater for HandTrackIt. The transmit interval for CellTrackIt operation depends on the required sample rate.
4. Ensure that the MIF wire terminations at the meter are waterproofed in accordance with the Meter manufactures installation procedures.
5. Mount DataSource915 as described in "Mounting Instructions" section above.
6. Verify that the signal is received with the appropriate receiving device from the desired location.
7. Verify that the reading corresponds to the visual indication on the meter register.
   NOTE: Max reading (pulse) = 16,777,215
   Max reading (encoder) = 9,999,999 - left most digits are dropped.
8. If appropriate check that encoder status is reported as 0. Encoder error codes are shown in the Encoder Status table below.

Error Codes

Tamper

Single pulse mode allows tamper readings of 1 through 63 which indicates a count of the tamper wire disconnections. The value should be recorded at the time of connection and any subsequent increments should be investigated.

Dual-Pulse mode does not allow tamper detection because all wires are used to count pulses.

Encoder Status

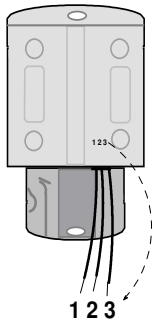
The encoders will display the following codes:

Error Code	Description
64	No communication from register
65	Open wheel in register
66	Shorted wheel in register
68	Undefined data error from register

Leak

Error Code	Description
128	Leak Flag

Wire Connections



Single Pulse Meters				
Manufacturer	**Model**	**Wire 1 Pulse**	**Wire 2 Ground**	**Wire 3 Tamper**
AMCO/ ABB	PSM-T	Green	Blue	Blue
AMCO/ ABB	Pulsar	Red	Black	Black
Master Meter	Single-Pulser	Black	Green	Green
Badger®	RTR 3-wire	Green	Red	Black
Badger	DSI-IL & RTR 2-wire	Red	Black	Black
Metron-Farnier	Spectrum	Red	Green	Green
Dual Pulse Meters		Red	Green	Black
DataSource915 monitors both meter switches and will increment the counter after both have been closed in sequence.				

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Encoders				
Scancoder		Green	Black	Red
ECR		Red	Black	Green
	Compatible with Hersey® Meters (Translator), Metron-Farnier, Sensus/Invensys® and others.			
ARB V		Black	Green	Red
ProRead/ AutoDetect		Black	Green	Red

Factory Default Settings

DataSource915 is provided with the following default settings:

DataSource915	Interface	ID Source	Utility Code
	Pulse	DataSource915 ID	09

Warnings & Precautions

Warning: Changes or modifications to product not expressly approved by Blue Tower Communications Inc could void the user's authority to operate the equipment. See FCC information below.

This sheet provides instruction needed to successfully connect, configure and read DataSource915 for the water meters listed above in the description section. This sheet is merely a supplement to training in the operation of the Blue Tower DataStream AMR system. For training information, contact Blue Tower Communications Inc directly.

FCC Information

This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

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