
SIMULATED PIT DESCRIPTION

The DataSource915-PIT product is designed and certified to be installed inside a water meter pit buried in the ground with the lid of the pit at or slightly below finished grade. Water meter pits typically are made from cast iron and have a solid bottom and solid sides with a cast iron lid providing access to the water meter, three different types of which are shown in the user manual.

The test fixture for the DataSource915-PIT was constructed using a plastic 200-litre barrel packed with sand to house the unit under test. A 5" diameter by 10" long cast iron tube, with a solid bottom with a typical cast iron pit lid placed on the top was used for the pit. At least six inches of sand at any point surrounded the pit and the cast iron lid was set at 0.8 meters above the surface of the turntable. The sand was packed in sand bags for ease of transportation between the two test chambers used and was packed tightly around the pit. The unit under test was placed in the bottom of the cast iron tube in all three planes using a cardboard fixture to hold the DataSource915-PIT in the required orientation. The Y Plane represents the normal orientation of the product when installed and represents the worst case scenario. The X and Y axis were measured for completeness.

A heavy duty PVC sheet was installed between the container and the floor to reduce the likelihood of contaminating the test chamber and turntable.

This replicated the pit simulation used for MS8PTransponditV2 with the exception that the product was mounted to a cardboard fixture rather than mounted to a wooden stake. This would not affect measurements. For clarity the description of the test method for MS8PtransponditV2 is shown in Annexe A and communications with the FCC about the validity of the test method are shown in Annexe B for DataSource915-PIT.



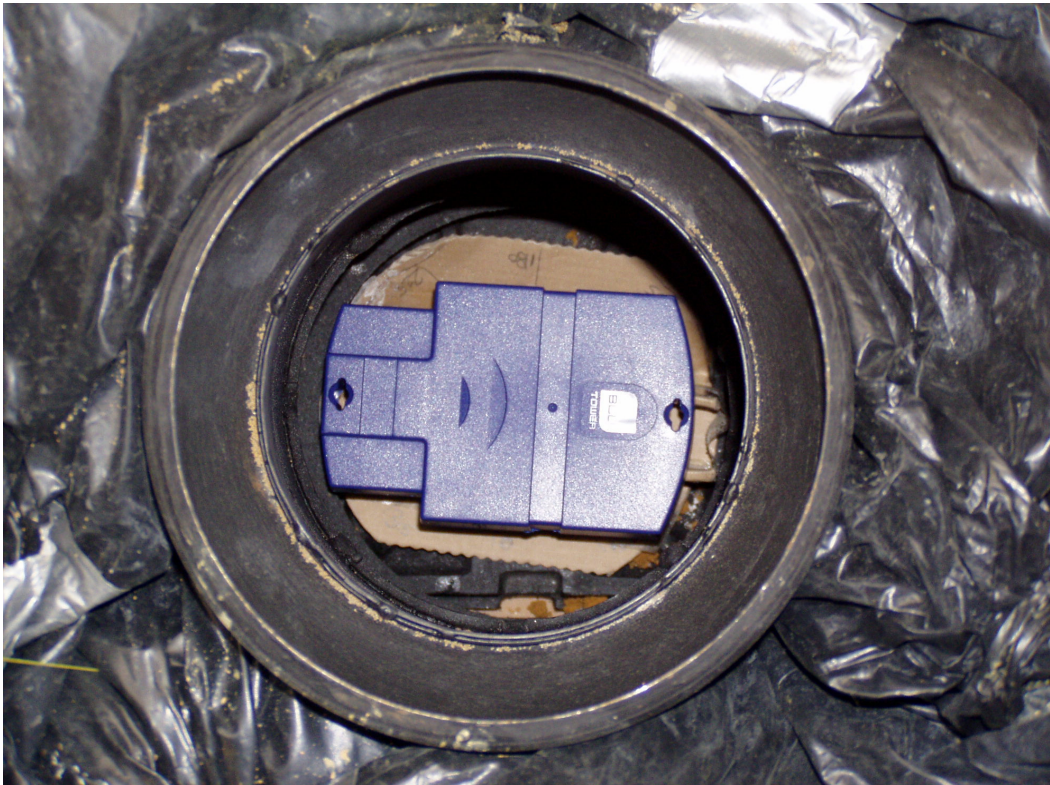
200-litre barrel



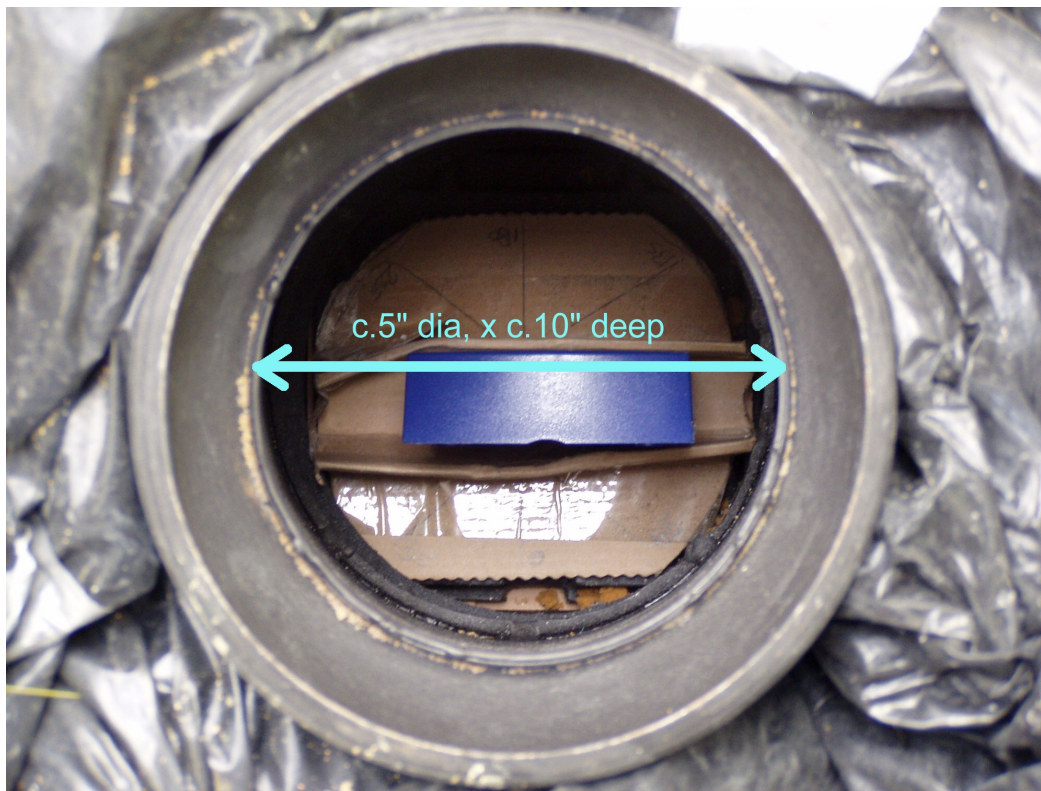
EUT in PIT - X-plane



EUT in PIT - Y-plane



EUT in PIT - Z-plane



Dimensions of PIT tube



Cast iron tube, pit lid and surround of sand in barrel.



Heavy duty PVC sheet to prevent contamination, taped to side of barrel to allow rotation of turntable.