

GENERAL INFORMATION

Product Description

The Equipment Under Test (EUT) is a Neptune Technology Group, Inc., Advantage (M/N 12025-000). Hand held probe to interrogate and read water meter encoders. One end of the probe has an inductive coupling and the other end has a pin lock to interface with the water meter encoders. It has 6 keypads, 2x16 LCD display and a rechargeable NiCd battery. It reads an encoder by interrogating it with 1200 or 19.2 kHz clock. Returned signal are filtered and read stored in an EEPROM. Data can be reviewed and retransmitted using the keypad. It transmits data at 1200 Bi-Phase. It's an unlicensed 914 MHz Saw device from RFM. The transmitter used in the design is a model TX6004.

The unit contains two PCB sandwiched together. The MPU board is a digital micro board and it has the slot antenna printed on the PCB. The I/O board is an analog board, which produces clock to read the encoder and filters data before going to the MPU board. A trigger in the unit starts the encoder reading process. If not used within 5 minutes unit will go into a deep sleep mode until the trigger was activated again. The operating voltage is 3.65 volts.

Related Submittal(s)/Grant(s)

The EUT will be used with an approved receiver.