

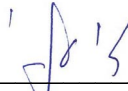
DATE: 30 December 2004

I.T.L. (PRODUCT TESTING) LTD.
FCC EMC/Radio Test Report
for
Sensus Metering Systems
Equipment under test:
American Meter Residential Gas Meter
Transmitter

GS0001

Written by: 
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6. Radiated Emission, For Low Frequency Transmitter (65.8 kHz)

6.1 Test Specification

9 kHz-30 MHz, FCC, Part 15, Section 15.209

6.2 Test Procedure

The E.U.T. operation mode and test set-up are as described in Section 3.

A preliminary measurement to characterize the E.U.T was performed inside the shielded room at a distance of 3 meters, using peak detection mode and loop antenna. The preliminary measurements produced a list of the highest emissions. The E.U.T was then transferred to the open site, and placed on a remote-controlled turntable. The E.U.T was placed on a non-metallic table, 0.8 meters above the ground. The configuration tested is shown in *Figure 3*.

The frequency range 9 kHz-30 MHz was scanned, and the list of the highest emissions was verified and updated accordingly.

In the frequency range 9 kHz-30MHz, the loop antenna was rotated on its vertical axis. The antenna height (center of loop) was 1 meter at a distance of 3 meters.

The E.U.T. was operated at the frequency of 65.8 kHz

6.3 Test Data

JUDGEMENT: Passed by 49.2 dB

The EUT was tested and it met the requirements of the FCC Part 15, Subpart C, specification.

The margin between the carrier level (65.8 kHz) and the specification limit was 49.2 dB.

All other emissions were at least 40 dB below the limit.

See details in Figure 5.

Note: Based on FCC Part 15, Section 15.201 no certification is required for this low frequency transmitter.

TEST PERSONNEL:

Tester Signature: 

Date: 28.12.04

Typed/Printed Name: E. Pitt