Israel Testing Laboratories

ACCREDITED
Cert. No. 1152.01

Electrical (EMC)

**DATE: 07 October 2002**

# I.T.L. (PRODUCT TESTING) LTD.

# EMC Test

**for**

# Nexus Data (1993) Ltd.

**Equipment under test:**

# Network Transceiver/Repeater

# (For Transmitter Section)

P3V7-89

Approved by:_____

I. Raz, EMC Laboratory Manager

Cert. No. 1152.01

Electrical (EMC)

# Measurement/Technical Report for

# Nexus Data (1993) Ltd.

# Network Transceiver/Repeater

## (For Transmitter Section)

# P3V7-89

## FCC ID:NL3NTR0001

# 07 October 2002

This report concerns: Original Grant x Class II change

Class B verification ___ Class A verification_____Class I change

Equipment type: Radio Telemetry Transmitter

Request Issue of Grant:

__**x**__Immediately upon completion of review

Limits used:

CISPR 22 _____ Part 15 __x

Measurement procedure used is ANSI C63.4-1992.


Application for Certification
prepared by:

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Applicant for this device:
(different from "prepared by")

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# 16. R.F Exposure/Safety

The E.U.T. is installed in fixed locations for application of transmitting data of gas consumption to central data collection offices. The distance between the E.U.T. and the general population is at least two meters.

Calculation of Maximum Permissible Exposure (MPE)

Based on Section 1.1307(b)(1); 1.1310 Requirements for General Population/ Uncontrolled Exposures.

(a) FCC limits at 903.8 MHz

$$S = \frac{903.8}{1500} = 0.6 \frac{mW}{cm^2}$$

(b) The power density produced by the E.U.T. is

$$S = \frac{P_t G_t}{4\pi R^2}$$

$P_t$- Transmitted Power 1000mw (Peak)

$G_T$- Antenna Gain, 2(3dBi)

R- Distance from Transmitter using 1m worst case

(c) The peak power density is :

$$S_p = \frac{10^3 x2}{4\pi (100)^2} = 0.016 \frac{mW}{cm^2}$$

(d) This level is significantly below the FCC limit.