FCC

To whom it may concern:

SUBJECT: SENSORMATIC ELECTRONICS CORP.FCC ID: APS1000

REFERENCE: JOB 1074UC2

From: DONALD UMBDENSTOCK:

The distance correction factor is explained as follows:

Test report Section IV, Radiated Emissions: "Propagation loss was determined by extrapolating the results to 300 meters as per 15.31(f)(2), using the 2 point roll-off extrapolation method."

Test report Section VIII, Data, Part B, Radiated Emissions, footnotes at the bottom of the page:
"DCF: Distance Correction Factor
DCF = 20 log(Test Dist / 300)P = 20 P log (Test Dist / 300)

Where P is the roll-off exponent . P is found as follows:
P = (Level(at Distance 1) - Level(at Distance 2)) / 20 log (Distance 2 / Distance 1)
P = 3

The above formulas explains the 2 point method allowed by the rules. The following is the formula with values plugged in:

P = (59.4 - 41.3) / 20 log (20/10)
= 18/6
= 3

DCF = 20 P log (10/300)
= (20)(3) log (1/30)
= 60 log (1/30)
= - 88.6

Similarly for test distance at 30 meters,

DCF = 60 log (10/30)
= - 28.6

Let me know if you need any further clarification.

Kind regards,

Form Letters1

Don Umbdenstock