

Information about the Applicant

Company Name	Enalasys
Address	250 Avenida Camplilla
City, State, Zip	Calexico, CA 92231
Requested By	Art Chase
Job Number	ENAL0006
Model	e-Scan2
FCC ID	PLF-ESCAN2
Approval Type	Original Grant
Equipment Type	Low Power Communication Device Transmitter
Rule Part	15.231

Overview

The e-Scan2 radio system is a portable system used to acquire data from heating, ventilating and air-conditioning (HVAC) systems for the purpose of determining system deficiencies such as duct leakage, improper refrigerant charge, reduced air flow, etc.

The system is comprised of 2 sensor units; ESCAN2-SX, ESCAN2-LX and a receiver unit ESCAN2-RX. The receiver (RX) unit, under control from a lap-top computer, polls the sensor units once every 30 seconds. After gathering the required system data the LX and SX sensor units, on a timed bus, report their data back to the receiver (RX) unit in a single datastream of 220 mSeconds with a duty cycle of 20%.

The RF sections of all three units have identical schematics, bills-of-material and printed circuit board layouts, and use identical antennas.

Recommendation

All items have been resolved and completed to my satisfaction; therefore I recommend this application for approval.



7/11/03

David M. Tolman, TCB Committee Person

Date

General Comments

Item	The user manual provided is for an e-Scan AC, while the application is for and e-Scan2.
Resolution	Client provided an explanation that the user manual entitled e-Scan AC is used for the e-Scan2. The e-Scan2 is an internal designation for the transmitter.
Item	The user did not request to hold any exhibits confidential.
Resolution	The user does not desire to hold any exhibits confidential.

Opinion

Specification Requirements	Description
15.207	Conducted Emissions

Opinion: The Equipment meets the requirements.

Discussion: The Equipment is battery powered, therefore no conducted emissions measurements are necessary.

Specification Requirements	Description
15.231(e), 15.205	Restricted Bands of Operation and Spurious Radiated Emissions

Opinion: The Equipment meets the requirements.

Discussion: The Applicant has submitted test results in the form of a test report.

Reference: Spurious Radiated Emissions.pdf

Specification Requirements	Description
15.231(c)	20 dB Bandwidth

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report.

Reference: 20 dB Bandwidth.pdf

Specification Requirements	Description
15.231(e)	Field Strength of Fundamental

Opinion: The Equipment meets the intent specified by the requirements listed above.

Discussion: The Applicant has submitted test results in the form of a test report.

Reference: Field Strength of Fundamental.pdf