

May 22, 2001

FCC Laboratory

Federal Communications Commission

Dear Sir:

This application is being made under the provisions of FCC Docket 87-389 adopted June 23, 1989. Equipment labeling conforms to section 15.19 (Docket 87-389) and user information to section 15.27(a) and (c), and 15.105 (Docket 87-389).

The DR4220 operates as an RF/ID card reader over an RS-485 multi-drop communication channel with a separate controller. The controller:

- receives RFID card/tag data from the DR4220 for access control decisions,
- controls led indicators in the DR4220, and
- controls an audible buzzer in the DR4220.

In operation, the DR4220 generates a 132KHz field that powers a passive digital RFID command key that contains a stored digital key code. On power up, the RFID card returns the stored digital key code to the DR4208 reader via phase-shift key modulation of a 66KHz return signal. The reader receives and amplifies the modulated return signal for processing in the DR4220. The DR4220 detects the key code and reports the key code to the controller or computer via RS-485 serial communications. The DR4208 is based on the same technology previously certified as C4PDR4220.

This letter comprises one exhibit of the electronic filing of this application. Parts of some of the exhibits (photos and block diagrams) have been duplicated in several of the exhibits for completeness.

Please contact the undersigned if additional information is required.

Sincerely,

Jim Collins  
Design Engineering Manager  
Phone: (510) 360-7855

Email: collinsj@wse.com