

Telemetry Receiver SRX800
Model SRX800-D
Operational Description

Lotek Wireless
115 Pony Drive
Newmarket, Ontario
Canada, L3Y 7B5

Tel: 905-836-6680
Fax: 905-836-6455
Web-site: www.lotek.com

1. General Description

The receiver is a stripped down SRX 800 model, and it will be marketed under the model name of SRX800-D. It is supposed to be an entry level telemetry receiver, which requires a PC to set it up. It is able to detect and record coded RF tags, in the same way as the SRX 600 telemetry receiver does.

The front panel contains:

- Three signaling LEDs (labeled as Mode, Pulse Detection, and Tag Validation);
- USB port;
- RS-232 Serial port;
- Headphone output;
- Volume Control/Start-up Button
- User defined configurations

Compared to the SRX800 model, the SRX800-D model neither has a display nor a keyboard. This is the main difference between the SRX 800 and the SRX800-D model.

The unit does not have its own power supply, it is powered externally by a 12 V battery, or a 12 V power supply, via a cable attached to a connector placed on the side. The power cable has two alligators which can be used to connect the cable to a 12 battery. The red alligator should be connected to the positive pole, the black alligator should be connected to the negative pole (ground).

The RF antennas, or RF antenna cables are connected via BNC connectors (50 Ohm impedance) located on the side. The SRX800-D can accommodate up to four VHF antennas.

The GPS antenna connector is located on one of the side panels (SMA connector).

The technical parameters and the VHF frequency range are the same as for the SRX800 telemetry receiver, i.e. 138 MHz to 176 MHz.



2. Short Description of Operation

The operation is very similar to the SRX800 model, but a PC is required to set-up the device. The PC can be connected either via the RS-232 or the USB port. Via a Host Windows software, the user can set-up the receiver, and can collect recorded data from the receiver. Once set-up, the receiver is able to work independently, and can detect and record the RF tags.





The specific state the receiver is in, along with some diagnostic information, are signaled by the three LEDs on the front panel as presented below:

SETUP MODE (Every 4 s)	Blink  for 660 ms		
TEST MODE (Every 2 s)	Blink  for 100 ms		
DATALOG MODE (Every 2 s)	Blink  for 100 ms		

PULSE DETECTION LED:

TEST MODE (show any pulse detection): Blink  for 10 ms
DATA LOG MODE (show any pulse detection): Blink  for 10 ms

TAG VALIDATION Mode LED:

TEST MODE (show any successfully parsing): Blink  for about 100 ms		
DATALOG MODE (show any successfully parsing): Blink  for about 100 ms	Left data storage < 2Mbytes	Blink  for about 100 ms every 7.1 s
	Data storage full	Blink  for about 100ms every 1.1 s

Master FW Version: 9.7.10

Slave FW Version: V20