

Wireless Drum Sensor (WDS)

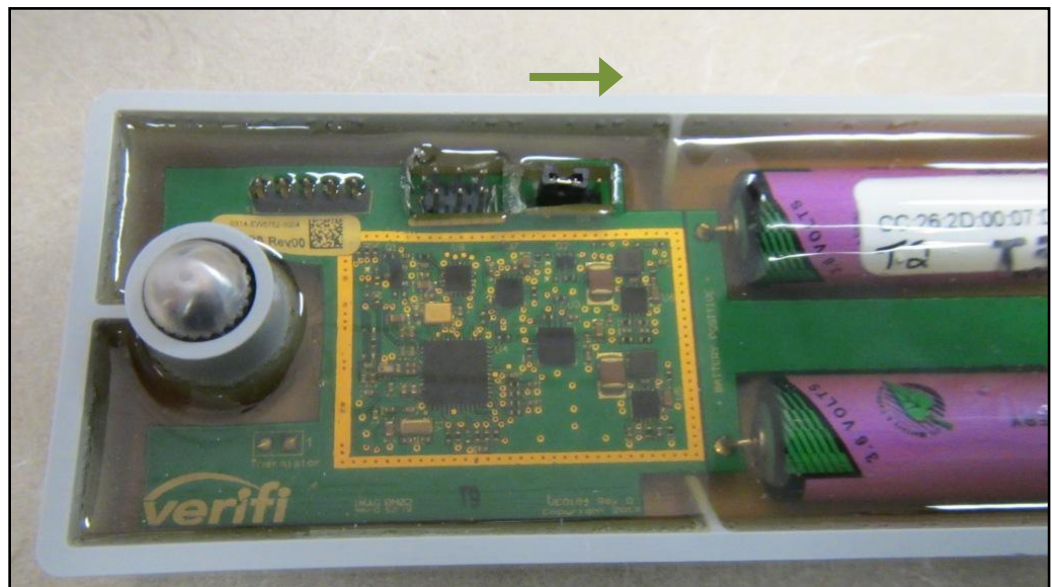
1.0 WIRELESS DRUM SENSOR

1.1 FUNCTION

The WDS measures the concrete temperature and acceleration in three axes. The acceleration data is used to determine the drum speed, drum direction and drum turn count.

1.2 INSTALLATION

Move the power jumper to the on position (closest to the batteries).



Record the WDS MAC address (on a label on a battery and on the outside of the enclosure) for use during the commissioning process.

Install the WDS onto the drum hatch.

- Drill a 17/32" hole in the drum hatch. Use the step drill bit to get close and then the 17/32" bit to complete the hole.

VM0214	Drill Bit, Step 1/4"-3/4"
VM0279	Drill Bit, Cobalt 17/32"

- Apply adhesive to the bottom of the WDS.

VM0389	Adhesive Cartridge, Dow Corning 832, Grey
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- Insert the probe into the drilled hole in the drum hatch.
- Press firmly on the sensor.

- o Use two strips of duct tape to hold the sensor in place until the adhesive sets.

VM0481 Duct Tape, 2" Wide Gray 50 YD Roll

- o Allow the adhesive to set overnight before putting the truck into service.



1.3 CONNECTIONS

The WDS is a wireless device and has no connections.

1.4 FCC

Per FCC 15.19(a)(3) and (a)(4) This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Per FCC 15.21, The user manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

To satisfy RF exposure requirements, this device and its antenna must operate with a separation distance of at least 20 cm from all persons." Reference FCC KDB 784748, Section A.8.