

VR Omni Treadmill

Wireless Telemetry System

Industry: IoT

Summary

Customer Challenge

VR omni treadmills are a device used for immersive technology gaming, training, or other simulation purposes. VR omni treadmills need to be force tested and analyzed to ensure the treadmill is accurately picking up on movement by the user, and may need further calibration and adjustments.

Interface Solution

Interface suggests using SSB Sealed Beam Load Cells, and installing it in the VR treadmill. When someone walks or runs on the treadmill during a simulation test, data is captured and sent to WTS-AM-1E Wireless Strain Bridge Transmitter Modules. The force results are wirelessly transmitted and logged to the customer's PC using the WTS-BS-6 Wireless Telemetry Dongle Base Station with supplied software.

Results

Interface's SSB Sealed Beam Load Cell and WTS Wirelessly Telemetry Systems successfully measured the forces of the VR omni treadmill when undergoing a force test.

Materials

- SSB Sealed Beam Load Cells
- WTS-AM-1E Wireless Strain Bridge Transmitter Modules
- WTS-BS-6 Wireless Telemetry Dongle Base Station with supplied Log100 software
- WTS-BS-1-HA Wireless Handheld Display for Multiple Transmitters
- Customer PC or Laptop
- VR Omni Treadmill under test

How It Works

1. SSB Sealed Beam Load Cells are attached to the WTS-AM-1E Wireless Strain Bridge Transmitter Modules, which are installed in the VR treadmill. An individual walks and runs on the VR treadmill during a simulation.
2. Forces measurements are logged, graphed, and wirelessly transmitted from the WTS-AM-1E to the customer's PC using the WTS-BS-6 Wireless Telemetry Dongle Base Station with supplied software.
3. Results can also be transmitted to the WTS-BS-1-HA Wireless Handheld Display for Multiple Transmitters where each load cell can also be summed.

