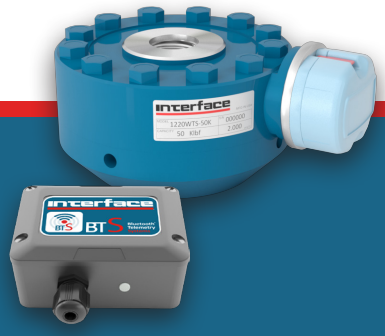
WTS & BTS

Telemetry Systems



WTS & BTS Telemetry Systems v1.4 11-19-2026



interface
FORCE MEASUREMENT SOLUTIONS

The World Leader in Force Measurement Solutions™

System Benefits

BTS Bluetooth® Telemetry Systems

- ✓ Long Battery Life
- ✓ Use Own Device
- ✓ Low Cost
- ✓ Android & iOS App
- ✓ Upgrade Path

- ✓ High Accuracy
- ✓ High Resolution
- ✓ IP Rated Enclosures
- ✓ OEM Options
- ✓ Strain or Load
- ✓ Cell Input

WTS Wireless Telemetry Systems

- ✓ High Speed
- ✓ Modular System
- ✓ Long Range
- ✓ Windows Software
- ✓ Maximum Devices
- ✓ Multiple Input Types

System Benefits

Bluetooth® Telemetry System



Instant access to close range strain bridge input measurements via phone or tablet. Connect up to 12 sensors to a single mobile device or to multiple mobile devices.

The BTS-AM-1 is a Bluetooth Low Energy (BLE) strain bridge transmitter module that provides access to high quality measurements on a mobile platform such as a phone or tablet. The delivery mechanism is BLE which utilizes the flexibility and availability of Bluetooth receivers while maintaining the low power requirements of embedded systems. BTS is built upon two complimentary principles of BLE: 1) broadcast advertising data which enables users to deliver the same data to multiple receivers simultaneously and 2) low power paired connections which can be used in a point to point system.

Wireless Telemetry System



Powerful and easily expandable for measuring multiple sensor types. Connects with up to 100 sensors up to half a mile range. Supported by powerful configuration software with data logging and visualization for local or remote access.

The Interface WTS, sensor transmitters, receivers, and displays provide high accuracy, high quality measurement with simple, yet powerful configuration and monitoring software. The WTS gives sensor manufacturers and integrators the complete flexibility to build their own sensor modules around it. The system easily replaces wired systems, reducing installation and maintenance costs.

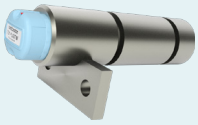
interface
FORCE MEASUREMENT SOLUTIONS

7418 East Helm Drive, Scottsdale, AZ 85260 ▪ 480.948.5555 ▪ interfaceforce.com

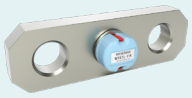
Interface's **Wireless Telemetry System (WTS)** and **Bluetooth Telemetry System (BTS)** provide flexible, high-accuracy wireless measurement solutions for load cells, torque transducers, multi-axis sensors, and related products. WTS replaces traditional wired systems to reduce installation and maintenance costs while offering simple configuration and monitoring through the WTS Toolkit software. BTS leverages Bluetooth Low Energy (BLE) technology, utilizing both broadcast advertising for multi-receiver data sharing and low-power paired connections for point-to-point applications. A free iOS and Android app enables users to visualize data on phones and tablets with customizable dashboards, mathematical expressions, and tools for configuration and calibration.



WTS 1200 Standard Precision Wireless
Up to 3,000K lbf
Up to13.3 kN



WTSLP Wireless Stainless Steel Load Pin
Up to 3,000K lbf
Up to 13.3 kN



WTSTL Wireless Tension Link
11K to 220K lbf
5 to 100 MT



WTSLTL Lightweight Aluminum Wireless Tension Link
11K to 661K lbf
5 to 300 MT



WTSLTL-JR Aluminum Compact Wireless Tension Link
2.2K to 10.5K lbf
1 to 4.75 MT



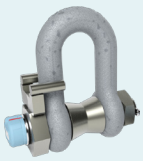
WTSSHK-B Wireless Crosby™ Bow Load Shackle
26.5K and 265K lbf
12 to 120 MT



WTSSHK-B-HL Wireless Bow Load Shackle
265K to 2205K lbf
120 to 1K MT



WTSSHK-B-JR Wireless Crosby™ Bow Load Shackle
7.17K to 20.9K lbf
3.25 to 9.5 MT



WTSSHK-D Wireless Crosby™ Load Shackle
26.5K to 77.2K lbf
12 to 35 MT



WTS-AM-1E Wireless Strain Bridge Transmitter Module
For Strain Bridge Input



WTS-AM-1F Wireless Strain Bridge Transmitter Module
For Fast Measurements



WTS-AM-2 Wireless Voltage Sensor Transmitter
For Voltage Input



WTS-AM-3 Wireless 4-20 mA Transmitter Module
For mA Input



WTS-HK-S Next-Generation Wireless Handheld
Unlimited Transmitters
Up to 12 Transmitters



WTS-BS-3E Wireless Base Station with USB Interface
Includes WTS Toolkit
Software and Log 100 Software



WTS-BS-4 Wireless Base Station with USB Interface in Industrial Enclosure
Includes WTS Toolkit
Software and Log 100 Software



WTS-BS-5 Wireless Analog Output Receiver Module
Provide Analog Output for WTS Acquisition Modules



WTS-BS-6 Wireless Telemetry Dongle Base Station
Includes WTS Toolkit Software and Log 100 Software



WTS-LD1 Wireless Large LED Display
Large Screen with 4-digit 4 in (102 mm) LED display



WTS-LD2 Wireless Large LED Display
Large Screen with 6-digit 4 in (102 mm) LED display



WTS-GW1 Wireless Gateway with Modbus and ASCII Serial Output
Capable of Gathering Data from Up to 100 Acquisition Modules



WTS-RM1 Wireless Relay Output Receiver Module
Accepts Up to 16 Devices



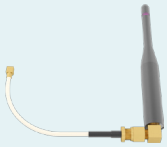
WTS-SO Wireless Interface with ASCII Serial Output
Serial Output to Printer, Display, PC or PLC



WTS-AR Wireless Repeater Module
Extends and Enhances Range of WTS Devices



WTS-ANTA PCB Antenna
Designed to be fitted inside a plastic enclosure



WTS-ANTB Whip Antenna
Fixed 90 degree elbow designed for mounting externally



WTS-ANTC Whip Antenna
Variable angled elbow for mounting externally



WTS-ANTD Puck Antenna
Suitable for applications requiring a low physical profile and high gain



WTS-ANTE Puck Antenna
Designed for mounting externally with a low physical profile



WTS-BC1 Telemetry Charger Module
Lithium battery charger module Compatible with both WTS and BTS



BTS-AM-1 Bluetooth Telemetry System
"AA" Battery Powered Bluetooth Strain Gage Transmitter



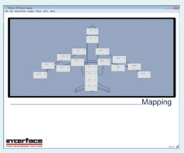
BTS-OEM-1 Bluetooth Telemetry System
OEM Bluetooth Strain Gage Transmitter



WTS-HK-S Toolkit
Configure, Calibrate, and Test Communications with Modules



WTS Toolkit
Setup, Scaling, Logging, & Graphing Software

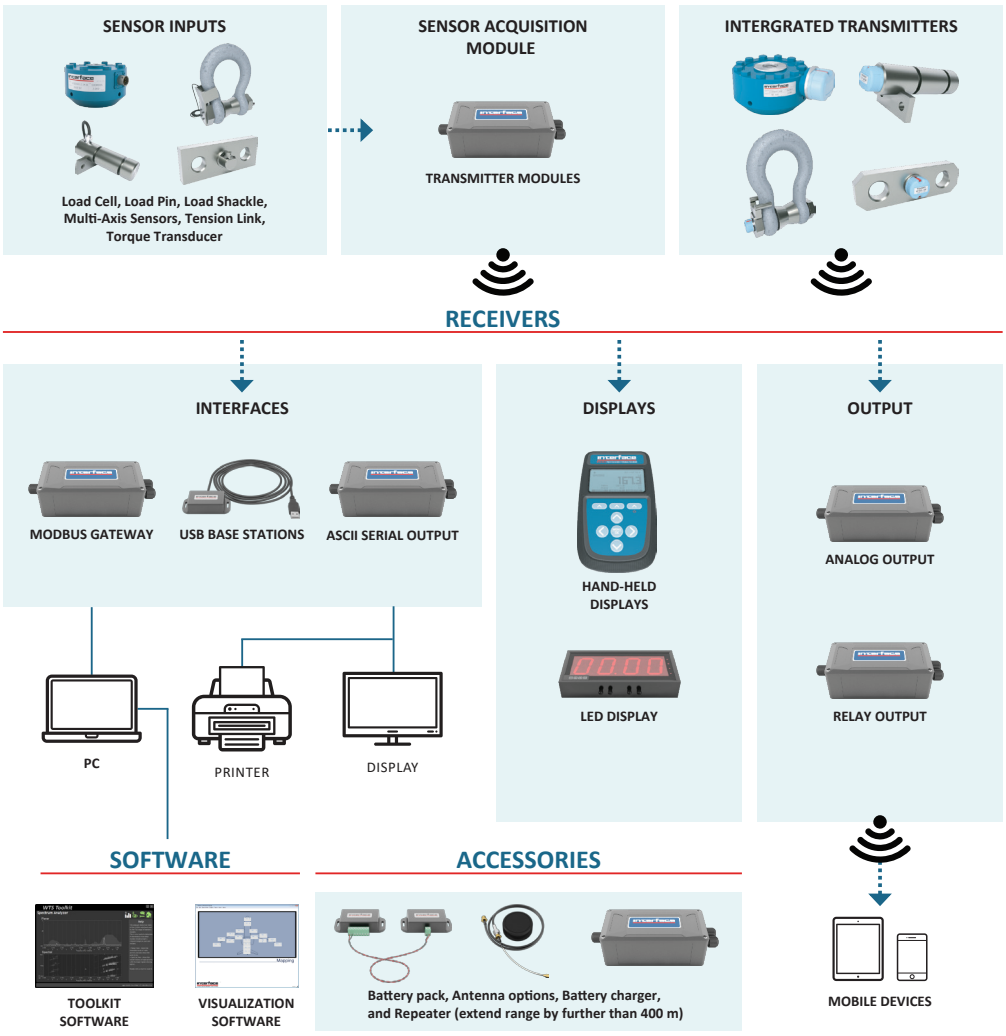


Log 100 Software
Display, Logging, Graphing, & Mapping Software



BTS Toolkit
Free iOS and Android App

Wireless Telemetry System (WTS)



Software and Apps

WTS-HK-S Toolkit

The WTS-HK-S Toolkit allows configuration, calibration and testing of the WTS range of 2.4GHz telemetry products. The WTS-HK-S Toolkit is a software tool that allows communication with the WTS range of 2.4GHz telemetry products. A suitable telemetry to PC interface will be required such as a base station.

WTS Toolkit

The WTS Toolkit is a software tool that allows communication with the WTS range of 2.4GHz telemetry products. A suitable telemetry to PC interface will be required such as a base station.

BTS Toolkit

A free iOS and Android app is available for download, which enables users to create dashboards with varying degrees of detail based on application requirements. It enables BTS systems to be visualized on phones and tablets by using digital displays, gages, tanks and charts. Displayed data can be defined as mathematical expressions consisting of readings from multiple transmitters, functions and constants. The app also facilitates BTS module configuration and calibration.

Log 100

Log 100 has been designed to allow the logging and visualization of up to 100 channels of data from the WTS Wireless Telemetry range of sensor transmitters. This software is free to download and allows users to build a visual representation of a system and assign live readings. The built in web server provides a summary view page to other computers, tablets, iPads and smart phones etc. using a standard browser.

Interface
WTS & BTS Telemetry Systems

- Bluetooth®
- Wireless
- Acquisition Modules
- Repeater Modules
- Telemetry Antennas
- Base Stations
- ASCII Serial Output
- LED Displays
- Repeater Modules
- Modbus
- LED Displays
- Relay Output Receivers
- Wind Speed Transmitters
- Load Cells
- Load Pins
- Tension Links
- Shackles

Interface force measurement Wireless and Bluetooth Telemetry Systems are available in many design configurations for project designs requiring the highest performance.

To learn more about the Interface products or force measurement solutions call 480-948-5555.

Interface is the world's trusted leader in technology, design and manufacturing of force measurement solutions. Our clients include a "who's who" of the aerospace, automotive and vehicle, medical device, energy, industrial manufacturing, test and measurement industries.

Interface engineers around the world are empowered to create high-level tools and solutions that deliver consistent, high quality performance. These products include load cells, torque transducers, multi-axis sensors, wireless telemetry, instrumentation and calibration equipment.

Interface, Inc., was founded in 1968 and is a US-based, woman-owned technology manufacturing company headquartered in Scottsdale, Arizona.

The Bluetooth® word mark and logos are registered trademarks owned by the Bluetooth SIG, Inc. and any use of such marks by Interface, Inc. is under license. Other trademarks and trade names are those of their respective owners.

interface
FORCE MEASUREMENT SOLUTIONS

7418 East Helm Drive, Scottsdale, AZ 85260 ▪ 480.948.5555 ▪ interfaceforce.com