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ADVANCED FORCE MEASUREMENT

---------- INTERFACE NEW PRODUCT BULLETIN ----------

WTS - Wireless Load Cell Communications System

Interface Force Measurements Ltd is pleased to announce our new WTS wireless telemetry system for load and torque cells. The WTS product line consists of a choice of wireless acquisition modules, display receivers and analog output modules.

For the past 50 years, Interface has supplied load cells, multi axis transducers and torque transducers for many demanding, high-reliability, industrial applications where durability and repeatability are critical. Now Interface can offer wireless communication between these sensors and your data acquisition system or handheld indicator – no wires up to 200 meters away. Communications are achieved with a 2.4GHz transmitter and associated receiver, using only standard AA batteries. The system is designed to provide months of service, as the system features a sleep/wake mode.

Developed for Medical, Aerospace, Automotive, and Manufacturing industry needs, the WTS wireless sensor communication system provides a way to monitor forces where wires are difficult to manage or install. A load cell or torque transducer is attached to the WTS-AM transmitter, which uses an input of mV/V, ±5V, or 4-20mA and transmits at 2.4GHz output to the receiver. The receiver (WTS-BS) can be either a handheld with 6 digit indicator, or a USB/analogue device capable of logging data during the user's tests.

Why wireless?

1. No cables! In some applications cable runs can be difficult. For example, if the customer has a cart and wants to remotely monitor the weight of product in the cart, wireless will allow this easily. Another example is an overhead hoist using a load cell to monitor weight.

2. Battery Power. Outdoor or remote installations may have limited access to power. Wireless solutions are battery powered and don't require access to mains power.

3. Long battery life. The WTS system includes special battery conserving features such as sleep and wake-on-command modes.

4. One Wireless hand-held display can be used with multiple sensors.

When purchased with a sensor, the new Interface wireless system includes full factory setup and configuration and will be ready to use, right out of the box.

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---------- Products Details ----------

WTS – Wireless Load Cell Communication System

– WTS-AM Acquisition Module

– WTS-BS Handheld Receiver

The WTS (Wireless Telemetry System) provides easy-to-use wireless data communication between a load sensor and a receiving indicator. The WTS-BS receiver is capable of receiving multiple inputs (selectable) from various load cells or torque transducers.

The WTS-AM is fully compatible with all of Interface's force sensors, and comes direct from our factory; setup, calibrated, and tested – ready-to-run.

Transmitter Module (WTS-AM)

– mV/V or voltage input with full 24 bit ADC and up to 18 bit effective resolution at 200 updates/sec.

– 2.4 GHz frequency with up to 200 meter range

– IP65 NEMA4 enclosure (80 x60 x30 mm)

– Battery operated (2@AA) with sleep mode

– Factory set-up to work properly with your selected load cell(s)

Receiver Module (WTS-BS-1 Handheld)

– 8 digit display

– Fully functional tare capability

– 200 meter range

– Power-off transmitter from receiver enabled

– IP65 waterproof enclosure (90 x150 x35 m)

Ordering Information;

1. Choose your load cell or torque transducer for the application

2. Tell us the maximum capacity used in your application

3. We'll setup, calibrate & test your new wireless system, so you have an out of the box solution

TRANSMITTER SPECIFICATIONS

Excitation Voltage	5VDC
Input	±4.5mV/V (max)
Radio Type / Frequency	2.4GHz; FCC
Data Rate	250 Kbits/sec
Available Channels	16
Operating Temperature	-40 to 65 ˚C
IP rating	IP65

SYSTEM COMPONENT OPTIONS

- WTS-AM-3 – current input 0-20 or 4-20mA
- WTS-BS-3 – wireless receiver, providing USB output to lop top or PC for data logging
- WTS-BS-5 - wireless industrial receiver, provides analogue output for data acquisition

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