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SmartStem Aftermarket 10/15

SmartStem[®]

wireless tire pressure management system



REVOLUTIONIZING TIRE PRESSURE MANAGEMENT
FOR LARGE COMMERCIAL AND REGIONAL FLEET OPERATORS

Measure the pressure, analyze the data, extend tire life

REVOLUTIONIZING TIRE PRESSURE MANAGEMENT FOR LARGE COMMERCIAL AND REGIONAL FLEET OPERATORS



Get the full value out of your tires

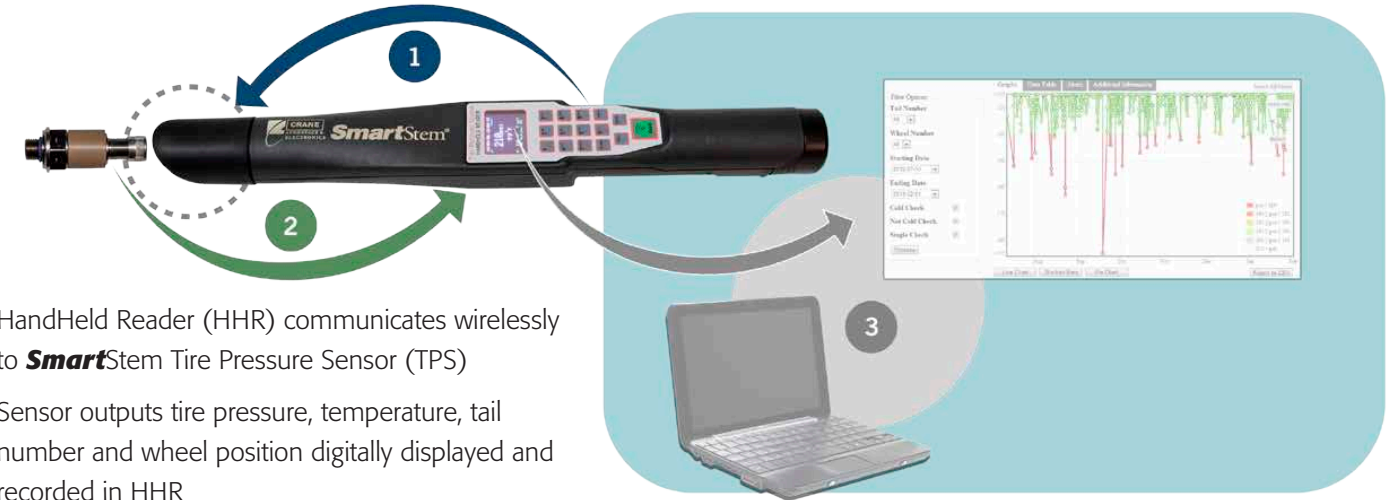
The simplicity of the **SmartStem**® wireless tire pressure management system enables you to perform daily tire pressure checks. The system features maintenance prompts to alert mechanics of required maintenance actions; an Adjust prompt indicates that tire servicing is needed and a Replace prompt indicates a tire change is required. By taking daily tire pressure checks and taking the appropriate actions, you can reduce tire wear and increase the number of landings you get out of your tires. The HandHeld Reader (HHR) also automatically records tire pressure data, which can be downloaded for preventative maintenance analysis and trending. This data

can also be used to authenticate tire pressure checks for cost per landing contracts.

Ensure safe operations — Aircraft tires endure heavy loads, high speeds and extreme temperature changes. It is no surprise that aircraft OEMs, tire manufacturers and regulatory authorities all agree that tire pressure should be checked daily to ensure proper tire inflation for your fleet. **SmartStem** wireless tire pressure management offers confidence that your tires are properly inflated, ensuring safe operations and preventing operational delays. Use the **SmartStem** system to eliminate in-service incidents and unscheduled removals due to under-inflated tires.

“The 737 fleet has an average of 10 significant tire events per year with 50-70% considered preventable with daily tire pressure checks.”
— Wheels and brake engineer

Features and Benefits	Manual Gauge	Digital Gauge	SmartStem
Reduced Maintenance Labor & Improved Turn Around Time			•
Improved Dispatch Through Aircraft Autonomy			•
No Gas Loss During Tire Pressure Check			•
Improved Tire Pressure Accuracy		•	•
Ability to Take Tire Pressure in all Environments			•
Electronic Data Records for Trending & Leaking Tire ID			•
Improved Operator Ergonomics			•
No Scheduled Maintenance or Calibration Required			•
Eliminate Valve Cap Removal			•
Prevent Stem Damage During Check			•
Standardize Fleet Tire Pressure Management	•	•	•



1. HandHeld Reader (HHR) communicates wirelessly to **SmartStem** Tire Pressure Sensor (TPS)
2. Sensor outputs tire pressure, temperature, tail number and wheel position digitally displayed and recorded in HHR
3. Tire data records easily transferred to workstation for later trending analysis (**OPTIONAL**)

SmartStem certification on:

Regional Jet Certifications: CRJ 100/200/440/700 series/900 and DHC-8-100/200/300/400
Large Commercial Certifications: 737NG and 747-400

Simplifying Maintenance Operations

Step 1: Measure Tire Pressure

Tire Pressure Sensor
HandHeld Reader



- HHR displays tire pressure and temperature
- Shows specified service pressures and any recommended maintenance actions

Step 2: Take Action

Tire Pressure Sensor
HandHeld Reader



- HHR summary screen displays actions for all tires on the aircraft *
- Easy-to-read, color-coded display

* Program sensor with aircraft Tail Number & Wheel Position when wheel replaced

SmartStem HandHeld Reader eliminates the need for service pressure manuals at the aircraft, simplifying maintenance operations