

SmartStem[®]

wireless tire pressure measurement system

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www.smartstem.com



Changing the way tire pressure is measured
and recorded in business aviation

Take the pressure. Capture the data. Store it!

Changing the way tire pressure is measured and recorded in business aviation

SmartStem[®]

1 2 3 – it's that easy. Maintaining proper tire pressure helps ensure safe and efficient operations. **SmartStem**[®] Tire Pressure Sensors replace existing tire inflation valves and are used in conjunction with a special reader making daily tire pressure checks quick, easy, accurate and automatically documented. The user simply places the reader over the **SmartStem** Tire Pressure Sensor to retrieve tire pressure, temperature, time and date, as well as other unique information – all in less than three seconds. The reader displays the data, provides a date and time stamp, and stores it for later download and automated record keeping.

The FAA's Advisory Circular AC20-97B recommends that "Tire pressure should be checked DAILY using a calibrated gauge whose scale is suited to the pressure range that is being monitored." Accommodating AC20-97B is now easier than ever. With Crane's **SmartStem** wireless tire pressure system, pilots of Part 135 aircraft can now check tire pressure without a mechanic! Based on an FAA opinion, the tire pressure check can be performed as part of the preflight checklist by the pilot, if the aircraft is equipped with Crane **SmartStem** Tire Pressure Sensors.

■ *"If you saved the airplane from having a low tire and damaging it, the payback was instant ... In our opinion, SmartStem paid back instantly; it's a safer operation for us, it's an easier operation."*

"I think it's tremendous – from somebody who wasn't very much sold on the idea to a situation where I don't know what we would do without it. I mean, it is just that much of a change for me and our operation."

Wayne Smith, Maintenance Manager
CommScope, Hickory NC



1. HandHeld Reader (HHR) communicates wirelessly to **SmartStem** Tire Pressure Sensor
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**)

Unique features and benefits of **SmartStem**

- ✓ Reduced maintenance labor
- ✓ Tire pressure anywhere, anytime without a mechanic
- ✓ No gas loss during tire pressure check
- ✓ Improved tire pressure accuracy
- ✓ Ability to take tire pressure in all environments
- ✓ Electronic data records for trending and leaking Tire ID
- ✓ No scheduled maintenance or calibration required
- ✓ Eliminate valve cap removal
- ✓ Prevent stem damage during check



What's in a Kit?

Your **SmartStem** Wireless Tire Pressure Sensing System Kit includes a **SmartStem** Tire Pressure Sensor for each wheel, a HandHeld Reader, one battery and, if required, one installation socket.

SmartStem Business Jet Certifications

Citation 500/501/510/525	Learjet 31, 35 and 36 Series
Citation 550/S550/551/552	Learjet 55 Series
Citation 560, 560XL & 560XLS	Learjet 60 Series
Citation 650	Global Express
Citation 750	Challenger 300/350
Falcon 50	Challenger 600/601
Gulfstream 350, 450, 500, 550 GV, GIV-X, GV-SP	Challenger 604/605
Learjet 40/45 70/75	BBJ (737NG)
Learjet 24, 25, 28 and 29 Series	

■ *"Prior to going to a continuous checking process, we were seeing our tires wear out at around 150 to 175 cycles. We've now had main gear tires that have gone 293 cycles, operating in and out of a 3,500 foot runway."*

Jad Donaldson, Chief Pilot
Avfuel Corporation, Ann Arbor, MI

Learn more at www.smartstem.com