

B777 Tire and Brake Monitoring System (TBMS)



The Crane 777 Tire and Brake Monitoring System (TBMS) provides continuous real-time monitoring of aircraft tire pressure and brake temperature. The design incorporates our SmartStem® wireless tire pressure sensor with integrated fill valve. The SmartStem uses sensing technology with triple redundant sensing channels to provide high reliability and accuracy. The Crane TBMS replaces TPMU and BTMU units (from the legacy system) with a single Tire and Brake Monitoring Unit (TBMU) that interfaces with the existing brake temperature probes. The existing wheel interface unit is replaced with an in-axle transformer and relay transformer hubcap assembly that allow the tire pressure signal to be transmitted magnetically with no physical contact between the components. Retrofit of the Crane TBMS requires no change to the AMC, EICAS, and CMC system interfaces.

The Crane TBMS offers the latest technology, improved reliability, and 60 pounds in weight savings!

- Production standard on B777 aircraft since April 2007
- Combines tire pressure and brake temperature monitoring functions in to a single Tire Brake Monitoring Unit (TBMU)
- SmartStem wireless triple-channel tire pressure sensors offer high reliability and accuracy
- Eliminates the repetitive maintenance requirement for tire pressure sensor calibration
- Boeing Service Bulletin SB-777-32-0062-00 to retrofit in-service aircraft with the new Crane TBMS
- Sensor reliability in excess of 350k MTBF
- 60 lbs (27.3kg) weight savings per aircraft

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