



Designed to withstand the extreme operating conditions of OTR tire applications



## OTR Tire Pressure Sensor

### Doran 360™ Tire Pressure Monitoring Systems

After more than two years of market research, product development, independent lab certification and field testing, Doran is introducing a new Doran 360™ tire pressure sensor for off-the road (OTR) tires.

The OTR tire pressure sensor (#3607) is specifically designed to reliably perform in the harsh environments found in mining, quarry and other off-road vehicle applications.

#### OTR Tire Pressure Sensor Features:

- Patent pending seal design with built-in filter to withstand rim conditioners and other liquids present in OTR tires
- Three-piece field replaceable brass seal for consistent valve core depression
- High performance Lithium-Ion battery for enhanced tolerance to temperature extremes and longer life
- Large High-Impact Nylon Housing allows for additional potting material to protect the internal sensor components from damage caused by vibration, impact and extreme operating conditions

In addition to rigorous field testing, the Doran OTR tire pressure sensor (#3607) has successfully passed tests using SAE standards for temperature, vibration and chemical/water resistance at an independent a2La accredited testing facility.



Each large bore sensor is produced with a patent pending seal design which includes a built-in filter to minimize the negative effect on tire pressure sensors from rim conditioners and other liquids typically found in OTR tires.

The field replaceable three-piece seal design is made with brass and temperature resistant seals to ensure consistent valve core depression while minimizing the potential for leaks.

In addition to the seal design, a high performance Lithium-Ion battery is used to withstand extreme hot and cold temperatures to provide long life and consistent RF signal transmission.

A proprietary potting material encapsulates and stabilizes the internal components of the sensor to protect against vibration, impact and maximize durability.

Each tire pressure sensor is laser-etched with a unique 12-digit serial number that is used to program the sensor and the baseline pressure setting to a specific wheel position on the in-cab Doran monitor.

The Doran OTR tire pressure sensor (#3607) can also provide digital tire pressure and temperature readouts to the Doran SmartLink™ programming tool for walk-around tire checks.

Doran OTR tire pressure sensors (#3607) are included with the Doran 360™ OTR tire pressure monitoring systems and are backwards compatible with, and can be retrofit on existing Doran 360CE tire pressure monitoring systems in the field.

### SENSOR SPECIFICATIONS

<b>Pressure Range</b>	10 to 188 psi
<b>Accuracy</b>	+/- 2 PSI over the pressure range
<b>Operating Frequency</b>	434.10 MHz
<b>Temperature Range</b>	-40 ° F to +257 ° F
<b>Housing Material</b>	High impact nylon
<b>Potting</b>	Encapsulates/secure internal components
<b>Valve Stem Thread Size</b>	Large Bore (.482-26)
<b>Serial Number</b>	Laser Etched
<b>Diameter</b>	1.57"
<b>Height</b>	1.55"
<b>Weight</b>	1.7 ounces

### DORAN 360™ TPMS WARNINGS/ALERTS

<b>Level I Low Pressure</b>	12.5% below programmed baseline tire pressure
<b>Level II Low Pressure</b>	25% below programmed baseline tire pressure
<b>High Pressure (Optional)</b>	25% above programmed baseline tire pressure
<b>High Temperature</b>	Activated when air in sensor reaches 175 ° F



**About Doran Manufacturing, LLC:** Cincinnati-based Doran Manufacturing has been supplying high quality transportation safety products for more than 40 years. In addition to tire pressure monitoring systems, the company supplies LED and incandescent Exterior Light Monitors, Sleeping Child Checks®, Emergency Exit Monitors and a full range of LED lighting products to the school bus market. Also, the company continues to manufacture customized electric terminals and terminal boards in the original factory that was established in 1954.

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