

A large pile of used, worn-out tires is shown in the background of the top half of the advertisement. The tires are of various sizes and are heavily treaded, suggesting they are for heavy machinery. They are piled haphazardly, with some showing significant wear and tear.

**Pile up dirt.
Not tire expense.**



**Tire Pressure
Monitoring Systems for
Commercial Equipment**



**We've got the
inside scoop.**

Why Tire Pressure Monitoring Matters

Avoiding costly downtime on commercial projects due to tire failures has never been more important. Just one tire failure on your equipment can throw an entire project off schedule while adding significant costs and delays that could have been avoided.

In addition, maintaining proper tire pressures on your equipment will help to significantly increase the life of your tires, optimize the traction and performance while creating a smooth ride for the operator.

The new **Doran 360CE™ Tire Pressure Monitoring System** is designed to handle the rigors of the harsh environments at construction sites, mines (surface and underground), quarries and terminals/ports to provide accurate and reliable tire pressure readings on your commercial equipment.



How it works

The **Doran 360CE™ Tire Pressure Monitoring System** continuously monitors air pressures in your tires by wirelessly transmitting data through RF signals from large bore valve-stem mounted tire pressure sensors to a digital display that is located in the cab.

Each of the wireless sensors has a unique serial number that is programmed to a specific wheel position on your equipment. This allows you to customize the baseline tire pressure that you want to maintain in each of your tires.

After the sensor locations and baseline pressures are programmed and installed, a Green Means Good™ LED light illuminates and "ON" is shown on the LCD display letting the operator know, at a glance, that the tires have the proper amount of air pressure in them.



Additional Features

Quick Installation and Simple Programming:

it is expected to take between 30-45 minutes to completely install the system; after a location in the cab for the monitor/display is selected and it is wired to a 12-volt power supply, the sensors are easily programmed before installing them on to the valve stems. Depending on the type of equipment, an additional remote antenna kit (#3623) can be installed to move the reception point out of the cab and improve the reception of the signal (sold separately).

Sensor Design and Construction: the Doran 360CE™ large bore sensors (#3603) are built with a unique and extremely durable three-piece seal that provides consistent pressure on the valve core while minimizing the potential for leaks. A potting material encapsulates and stabilizes the internal components to help withstand vibration and impact from the project site and maximize the durability. In addition, the sensors contain a Lithium-Ion battery that provides long life for consistent signal transmission.

Operator Accountability (data storage and lockout): The Doran 360CE™ has the capability to record and store date/time stamps for up to 32 alarms and the monitor can be locked to prevent inadvertent reprogramming or tampering.

Sleep Mode: The Doran 360CE™ can be installed to either allow for a "sleep mode" (the display will turn off with the vehicle) or can be installed with continuous power for tire pressure checks without turning on the ignition.



Doran Manufacturing, LLC | Cincinnati, OH

Warnings/Alerts

FastLeak™: if the pressure in a tire drops by 2.8 psi in less than 12 seconds, an audible alarm and red flashing LED light will be triggered. In addition, a FastLeak™ symbol and the specific tire location and pressure are shown on the LCD display. This lets the operator know that there is a problem that needs to be immediately addressed.

Low Pressure: there are two low pressure warnings that are built-in to the monitor.

- Level I: activated when the pressure in any of the tires drop 12.5% below the programmed baseline tire pressure.
- Level II: activated when the pressure in any of the tires drop 25% below the programmed baseline tire pressure.

In both cases, the audible alarm and red warning light are activated and the specific tire position and pressure are shown on the display.

High Pressure: there is an optional setting to provide a warning if the pressure in the tire increases to more than 25% of the programmed baseline tire pressure.

High Temperature: a "HOT" temperature alarm is activated when the temperature of the sensors reach 248° F which provides additional security against damage to the tires from excessive heat.

SENSOR SPECIFICATIONS

Pressure Range	10 to 188 psi
Accuracy	+/- 2 PSI over the pressure range
Operating Frequency	434.10 MHz
Operating Temperature Range	-40°F to +257°F
Storage Temperature Range	-40°F to +257°F
Material & Potting	High impact nylon with potting to encapsulate and secure internal components
Battery	Lithium Ion (internal, non-rechargeable & non-replaceable)
Dimensions	1.17" W x 1.52" H
Valve Stem Thread Size	Large Bore (.482-26)
Weight	1.09 oz

MONITOR SPECIFICATIONS

Power Requirement	12 VDC
Current Draw	Normal Mode: <77mA Alarm and Backlight: <115mA Sleep Mode: <70mA
Tire Positions	1 to 36 wheels
Low Pressure Alerts	Level I: 12.5% below baseline psi Level II: 25% below baseline psi
Fast Leak Alert	2.8 psi drop in less than 12 seconds
High Pressure Alert	25% above baseline psi
High Temperature Alert	248°F
Dimensions	5.65" W x 2.16" H x 1.14" D approx. size of a chalkboard eraser
Weight	5.40 oz

866.816.7233

www.doranmfg.com