

### MEMS TAG Description

The MEMS (Michelin Earthmover Management system) tag is a battery powered tire air pressure and air temperature sensor. The sensor is mounted on the interior of the tire, in the air chamber. The sensor is equipped with a radio transmitter, which sends temperature and pressure measurements to receiving units outside of the tire. The tag operates when the air pressure is above 20 psi. In normal operating conditions, the temperature and pressure measurements are made at approximately 1 minute intervals. If the measured air pressure changes significantly between consecutive measurements, the tag increases the rate of measurement to approximate 10 second intervals. The tag operates at 433.92 MHz, and uses FSK modulation.