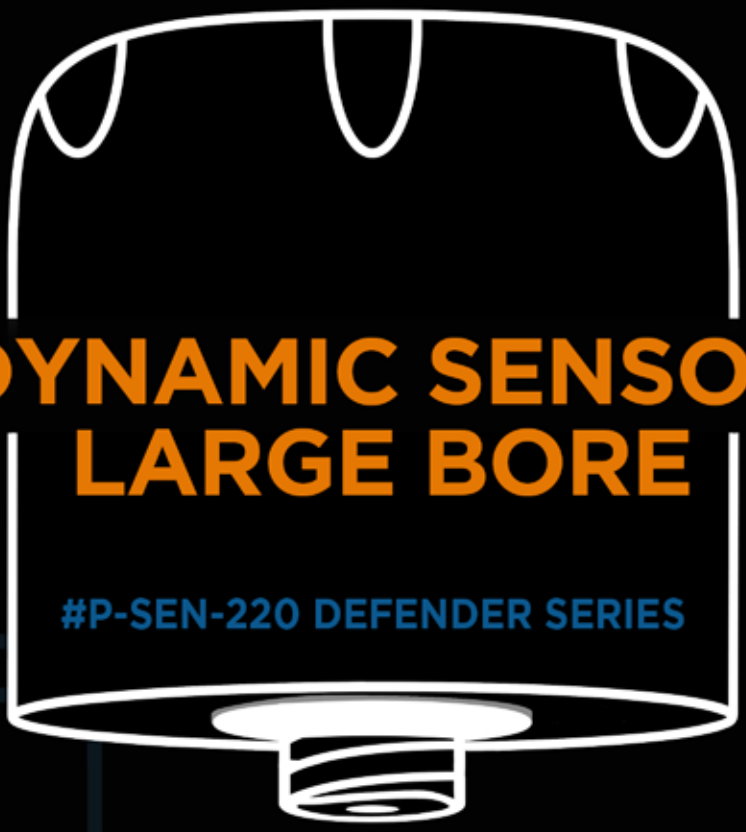
PressurePro
THE BEST IN TPMS



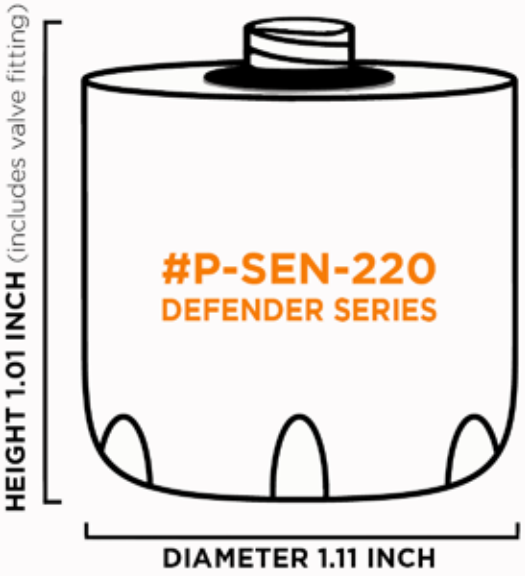
DYNAMIC SENSOR LARGE BORE

#P-SEN-220 DEFENDER SERIES

The release of PressurePro's Large Bore Dynamic Sensor marks another revolution in TPMS. Engineered specifically for heavy duty and industrial equipment, PressurePro's Dynamic Large Bore Sensors arm users with the market's first intelligent Sensor technology. Featuring improved temperature resolution. upgraded pressure accuracy and automatically increased sampling and reporting rates during severe work conditions, the Dynamic Sensors retain PressurePro's proven industrialized housing and inside-the-valve threading, providing unmatched durability in the roughest of environments. More, the Dynamic Sensors feature internal logic allowing them to evaluate historical pressure flucations and self-determine optimum tire operating parameters.

The DEFENDER series now protects against environmental factors by adding an epoxy resin injected directly into the sensor housing, safeguarding against ingress of potential corrisives and providing an additional layer of protection.

Adding all of these features, while preserving the same superior battery life, performance and reliability, PressurePro is proud to remain the Global Standard in TPMS.



SENSOR WEIGHT | 23.8 grams/.83 ounces
CONFORMITY TESTING | FCC, IC, CE, RoHS
ENVIRONMENTAL TESTING | Select J1455 and MIL-STD-810G
SENSOR TRANSMIT RANGE* | Approximately 100m (line-of-sight)
RF TRANSMISSION | 433.92 MHz
TEMPERATURE RANGE* | -20° to 70°C Operating, -40° to 150°C Excursion
TEMPERATURE RESOLUTION | 2.5°F/1.4°C (±5°F/2.8°C)
SAMPLING/REPORTING | 7 sec/5 min (<150°F), 5 sec/3.5 min (>150°F)
POWER | 3V Lithium Coin Cell Battery (internal, non-rechargeable)
SENSOR PRESSURE RANGE* | Operation 8-208 psi/Survivability 0-299 psi
PRESSURE RESOLUTION* | 1 PSI/6.9 kPa (±2-3 psi/13.8 kPa)
INSTALLATION | Male threads, screws directly into large bore valve stem
SENSOR INSTALL TORQUE | 13.3 in-lb (1.5 N-m)
MANUFACTURING | Designed and Manufactured in the USA
ADDITIONAL INFORMATION | Sensor is potted for added durability

Sensor transmission range is dependent on the vehicle environment and receiver antenna location.

Operating Temperature Range refers to the range that the Sensor would be expected to survive over an indefinite duration. Specifically, this refers to the temperature limit inside the housing of the Sensor.

Excursion Temperature Range refers to the environment that the Sensor has been tested and known to survive in for short durations. Specifically, this refers to the survivability of the Sensor housing. Prolonged exposure to temperatures outside the Operating Temperature Range, even if within the Excursion Temperature Range, can result in Sensor failures.

Sensor Pressure Survivability refers to the physical survival of the Sensor. Sensors employ an internal seal tested to survive up to 299 psi. The Sensor is not guaranteed to function if exposed to pressures above the Operating Pressure Range.

PressurePro Sensors are officially rated at ±3 psi (20 kPa). This limitation is a factor of the chipset used within the Sensor. In practice, PressurePro has found the variance in Sensors to be within 2 psi in most conditions.