

TEMPERATURE MEASUREMENT - PressurePro Monitors are able to display a temperature measurement sent from the Sensor. The Sensor sends temperature information from the tire to the PressurePro Monitor. When the Monitor is tied to a communications device which can send the temperature information to a tire management program, temperature can be monitored. When the Sensor is screwed onto the tire, it opens the dill valve in the stem and allows the air inside the tire to enter the Sensor. The measurement in the Sensor will be "relatively equivalent" to the air inside the tire. The outside (ambient) temperature will affect the temperature but not 'significantly'.

The Sensor reports temperature in 8 blocks (ranges) at increments of 20 degree C. When the readout from the Monitor displays:

#0 = -50C to -30C temperature
#1 = -30C to -10C temperature
#2 = -10C to +10C temperature
#3 = +10C to +30C temperature
#4 = +30C to +50C temperature
#5 = +50C to +70C temperature
#6 = +70C to +90C temperature
#7 = +90C to 110C temperature

(Fahrenheit to Centigrade = Centigrade temp x 9, then divide by 5 and add +32 = Fahrenheit)

If the #5 displays, range is 50 to 70C. When the #6 displays, the temperature range is 70 to 90C and when #7 displays, the temperature is 90 to 110C (194F to 230F - a dangerous range for tires).

DANGER ZONE - When a tire displays a temperature in the 6 to 7 range, there is cause for concern. That tire should be examined as well as the brakes, bearings, and any other possible causes. This range of temperature can and will damage the tire casing. _
