

This checklist helps evaluating each company's TPMS technology by asking about important features and subjects that are critical in an organization's successful TPMS deployment.

For more detail on each question, please read TireStamp's white paper entitled [Considerations For Selecting TPMS Technology](#).

|                |
|----------------|
| Date Completed |
|----------------|

|                         |                                 |
|-------------------------|---------------------------------|
| Manufacturer / Provider | Tire Pressure Monitoring System |
|-------------------------|---------------------------------|

## Sensors

|   |  |
|---|--|
| 1. What type of sensor(s) are available with the system? Select all that apply.   |  |
| <input type="checkbox"/> External Valve Stem Mounted  | <input type="checkbox"/> External Wheel Mounted      |
| <input type="checkbox"/> Internal Valve Stem Mounted  | <input type="checkbox"/> Internal Strapped To Wheel  |
| <input type="checkbox"/> Internal Attached To Tire Liner  |  |
| Other:  |  |
| 2. Expected battery life?   | Battery is replaceable? <input type="checkbox"/> Yes |
| 3. Can the sensor wheel position be changed easily? <input type="checkbox"/> Yes  |  |
| 4. Can target pressure and alert thresholds be changed quickly for all vehicles and fleet? <input type="checkbox"/> Yes |  |
| 5. Does solution lock you into only one sensor brand and model? <input type="checkbox"/> Yes                            |  |
| 6. What are the sensor operational and replacement costs per vehicle over 5 years? \$                                   |  |

## Vehicle Electronics

|   |
|---|
| 7. Can the in-cab display be hidden and audible alarm turned off if desired? <input type="checkbox"/> Yes |
| 8. Will the system also monitor trailer tires? <input type="checkbox"/> Yes                               |

## Alerts & Reminders

|  |  |
|--|--|
| 9. Select all alerts available for the following concerns:   |  |
| <input type="checkbox"/> Underinflation  | <input type="checkbox"/> Overinflation                               |
| <input type="checkbox"/> Differences In Dual Pressures   | <input type="checkbox"/> Wheel Nut Retorque Reminders                |
| <input type="checkbox"/> PM Reminders  | <input type="checkbox"/> Other                                       |
| <input type="checkbox"/> Overheating   |  |
| 10. Does solution calculate cold inflation pressure using tire and vehicle temperature? <input type="checkbox"/> Yes   |  |
| 11. System transmits alerts via: <input type="checkbox"/> Email <input type="checkbox"/> SMS Text Messages (phone texts)   |  |
| 12. Does solution transmit unlimited alerts to any role or entity desired?   |  |
| <input type="checkbox"/> Maintenance Technicians   | <input type="checkbox"/> Managers                                    |
| <input type="checkbox"/> Outside Service Providers   | <input type="checkbox"/> Call Centers                                |
| <input type="checkbox"/> Operations  | <input type="checkbox"/> Other:                                      |
| 13. As vehicle travels across country, can alerts be intelligently transmitted only to those physically capable of addressing the problem based on their proximity to it? <input type="checkbox"/> Yes |  |
| 14. What information is provided with each alert? Select all that apply.   |  |
| <input type="checkbox"/> Date & Time   | <input type="checkbox"/> Vehicle number                              |
| <input type="checkbox"/> Problem tire wheel position   | <input type="checkbox"/> Problem tire condition                      |
| <input type="checkbox"/> Instructions for addressing problem tire  | <input type="checkbox"/> Pressure and temp of other tires on vehicle |
| <input type="checkbox"/> Vehicle location  | <input type="checkbox"/> Target pressure                             |
| <input type="checkbox"/> Hooked to which tractor or trailer  |  |

15. Does TPMS predict time to catastrophic underinflation?  Yes

16. Does TPMS have limited visibility which result in “blind spots” when tire problems may occur?

- Tires visible when moving     
  Tires visible when parked     
  Tires visible when ignition off  
 Tires only visible when arriving or leaving yard

### Data Storage & Access

17. What data is available?

- |  |   |   |
|--|---|---|
| <input type="checkbox"/> Vehicle unit number       | <input type="checkbox"/> Vehicle location             | <input type="checkbox"/> Vehicle mileage                                  |
| <input type="checkbox"/> Tire pressure from sensor | <input type="checkbox"/> Tire temperature from sensor | <input type="checkbox"/> Calculated cold inflation pressure               |
| <input type="checkbox"/> Tire mileage              | <input type="checkbox"/> Vehicle speed                | <input type="checkbox"/> Tire mileage run underinflated and/or overheated |
| <input type="checkbox"/> Vehicle ignition on/off   |   |   |

18. Where is TPMS data stored and analyzed?

- In the in-cab device     
  On an isolated server in yard     
  Widely available in the Cloud

19. Are there any limitations on amount of TPMS data being stored?  Yes

20. Which ways does the TPMS 2.0 solution deliver its tire intelligence?

- Detailed alerts     
  Actionable reports     
  On demand over Internet  
 Excel for further analysis manually     
  API for further analysis in other fleet software

21. Does solution provide an application capable of recording tire service by technicians?  Yes

22. Do reports provide measurable data to improve quality of tire maintenance?  Yes

23. What devices are required to access data?

- Expensive hand-held readers     
  Common tablets/smartphones     
  Desktop/laptop computers

### Management Tools

24. What tools does the TPMS 2.0 solution provide management?

- |   |  |
|---|--|
| <input type="checkbox"/> Fleet-wide tire condition reports  | <input type="checkbox"/> Metrics monitoring tire maintenance improvements                            |
| <input type="checkbox"/> Metrics comparing one fleet location to another while identifying which need improvement                   | <input type="checkbox"/> Metrics identifying types of vehicles prone to tire or axle end problems    |
| <input type="checkbox"/> Identification of technicians and tire service providers not meeting fleet tire maintenance specifications | <input type="checkbox"/> Documentation of service performed with quality to support service invoices |

### Installation and Maintenance

25. Is the TPMS 2.0 solution easy and quick to install?  Yes

26. Can an outside service provider install and maintain the TPMS 2.0 solution?  Yes

27. Does the TPMS 2.0 solution monitor its own electronic equipment and sensors and notify when it is not operating correctly?  Yes