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PressureTech™

Intelligent Pressure-Sensing Technology



Maintaining correct tire inflation pressure is essential for improving fuel efficiency, tire life and overall safety in commercial vehicles. Yet only 25% to 30% of tractors and 15% of trailers are equipped with tire pressure monitoring systems, and there are few technologies available for fleets to better ensure that tractor and trailer tires are properly inflated.

That's where PressureTech™ by AKTV8 comes in.

PressureTech™ is a configurable pressure-monitoring sensor platform used for monitoring tire pressure, suspension pressure, onboard scales and virtually any other pneumatic system on a vehicle.

PressureTech™ sensors are designed and tested to OEM and heavy-truck standards that, depending on the application, will last up to five years on a single replaceable battery. Each sensor can be easily configured by scanning a laser-etched QR code on the cap.

PressureTech™ can be used as a standalone system with the mobile app or in combination with the AKTV8 iAir® gateway to connect to telematic systems. Unlike other systems, PressureTech™ is a configurable, made-easy platform that combines tire-pressure monitoring, onboard scales in a single telematics-ready system for the commercial truck and trailer applications.



CLASS 7-8 TRAILER



MULTIPLE LIFT AXLE



How It Works



PressureTech™ TPMS sensors easily screw onto the valve stem of any vehicle. The fade-resistant, laser-etched QR code on the top is used to configure the sensor in the PressureTech™ mobile app. The sensors will monitor both temperature and pressure up to 200 PSI. Push notification and email alerts can further be configured in the mobile app.

PressureTech™ TPMS sensors are available in both cap style and inflate-thru style sensors. Inflate-thru sensors allow air to be added to the tire without removing the sensor. Unlike other inflate-thru sensors, PressureTech™ is lightweight with little imbalance to the tire and compatible with trailer ATIS systems.

Our TPMS sensors offer a five-year battery life. Battery life is highly dependent on the broadcast frequency and asset utilization. Pressure is measured every 15 seconds, the PressureTech™ TPMS, with intelligent sensing technology, provides variable updates based on tire status. The updates are between 15 seconds and 5 minutes. However, a change in pressure of 10 PSI or more will cause an immediate broadcast.

PressureTech™ TPMS is perfectly suited for heavy-truck and trailer applications. For trailers, our range extender ensures in-vehicle connectivity from the mobile app to the sensors.

Unlike other products on the market, PressureTech™ TPMS cap and inflate thru sensors are lightweight, easily configured and robust with conformal-coated electronics to last the life of the vehicle and beyond.

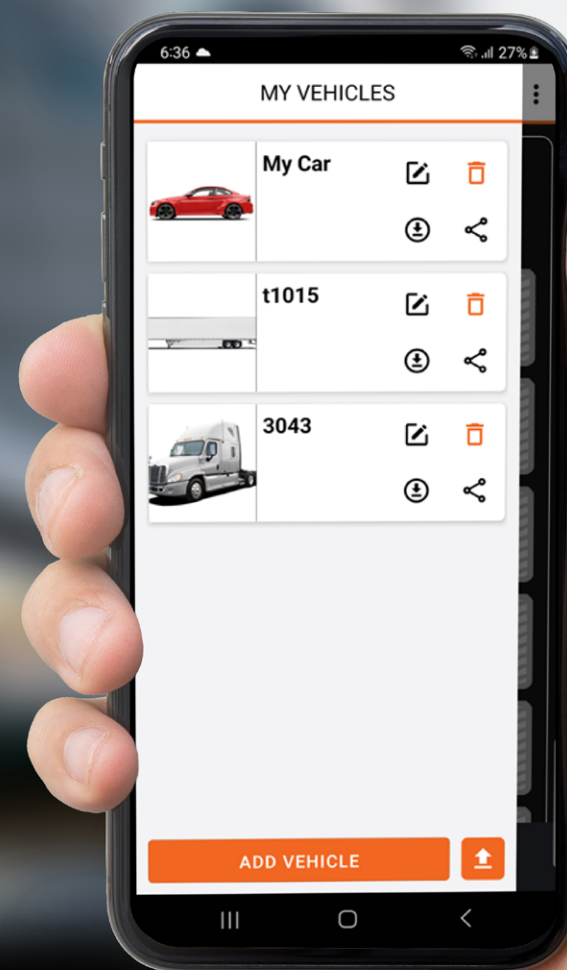


PressureTech™ Mobile App Features



The PressureTech™ mobile app is built for all TPMS and onboard scale products. With AKTV8's custom mobile app, you can configure multiple vehicles and trailers and set separate pressure alerts for each. For commercial users, all TPMS, vehicle and load data, and GPS location information can be saved and shared digitally directly from the device.

- ▶ Easily scan the laser-etched QR code
- ▶ Configure **multiple** vehicles and trailers in one app
- ▶ Create vehicle profiles with image and information (type, VIN, license, etc.)
- ▶ Configurable high & low pressure and temperature alerts with push notifications
- ▶ Access Drive Mode for real-time status of available sensors and any alerts
- ▶ See each tire on the truck or trailer with current pressure and temperature in the Configurations feature
- ▶ Share vehicle profiles and data logs to fleet managers for maintenance checks and vehicle configurations across drivers, saving time for large fleets.





Telematics Readiness for Heavy Trucks

With telematics systems rapidly becoming the norm throughout the heavy-truck industry, PressureTech™ is leading the way with an optional OEM-grade, electronic gateway that aggregates both TPMS and onboard scale sensor data and transmits it via Bluetooth or CAN to the vehicle's existing telematics system. When using the gateway, the PressureTech™ mobile app is first paired with the gateway before configuring the vehicle sensors.

For Telematics/ Enterprise solutions please contact us at 1 (888) 342-3162 or Info@AKTV8.com

PressureTech™ Onboard Scale



ONBOARD SCALES

Onboard scales are a valuable tool for heavy trucks and trailers equipped with air suspension to optimize vehicle loading and avoid costly fines. That's where PressureTech™ Onboard Scale comes in. Our robust made-easy onboard scales sensors install in minutes to new and existing vehicles. Like TPMS, PressureTech™ Onboard Scale sensors are configured through our custom mobile app, where you can calibrate loaded and unloaded weights, set alerts, and unlock other advanced features, such as frost law setting, when in effect. PressureTech™ Onboard Scale is designed with your business in mind and allows you to automatically email Onboard Scale information including images, GPS location, and load data directly to your back-office. For fleets with telematics, the optional gateway can be used to transmit PressureTech™ TPMS and Onboard Scale data to a vehicle's existing telematics system via Bluetooth or CAN.

Features

- ▶ Adaptive algorithm enables axle load monitoring in real time
- ▶ Optimize load-carrying capability of the vehicle while avoiding fines
- ▶ Adjustable frost law setting
- ▶ Lift axle and multiple lift axle load capable
- ▶ Store and configure multiple vehicles in one app
- ▶ Robust sensor with a three-year warranty and three-year serviceable battery life
- ▶ Easily scan the laser-etched QR code for set-up
- ▶ Optional range extender



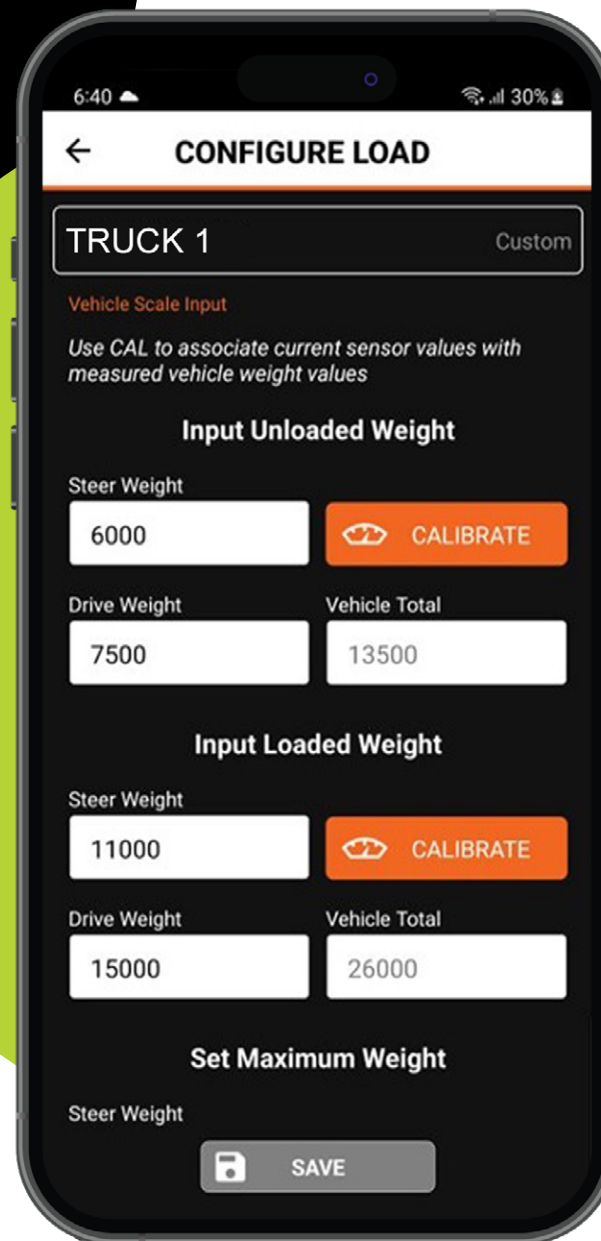
PressureTech™ Mobile App Features: Onboard Scales



The PressureTech™ mobile app is built for both TPMS and onboard scales. When using the app for PressureTech™ Onboard Scale, you can configure multiple vehicles and trailers and set separate alerts for each. For commercial users, all TPMS, vehicle and load data, and GPS location information can be saved and shared digitally directly from the device.

PressureTech™ Mobile App — Load features

- ▶ Easily scan the laser-etched QR code
- ▶ Configure multiple vehicles and trailers in one app
- ▶ Create vehicle profiles with image and information (type, VIN, license, etc.)
- ▶ Measure axle group weights with 95% accuracy
- ▶ Build temperature and pressure alerts per vehicle/trailer
- ▶ Access Drive Mode for real-time status of available sensors and any alerts
- ▶ Set pin-protected load alerts with warning and overload thresholds



PressureTech™ Kit Options

TPMS CAP SENSORS

SOLD IN PACKS OF FOUR

Cap Sensor - 003462

- ▶ Intelligent status updates to maximize battery life
- ▶ Providing up to a five-year battery life
- ▶ Ruggedized electronics
- ▶ Primarily used on trailers with ATIS



TPMS FLOW THRU SENSOR

SOLD IN PACKS OF FOUR, SIX, EIGHT AND TEN

Flow Thru - 003458, 003459, 003460, 003461

- ▶ Intelligent status updates to maximize battery life
- ▶ Providing up to a five-year battery life
- ▶ Equipped with metal cap compliant with commercial truck requirements
- ▶ Ruggedized electronics



RANGE EXTENDER KIT

003194

- ▶ Harness PCM Trailer - 003009
- ▶ Harness ABS Jumper 15' - 002587
- ▶ BT Reapter Module - 003078

VISIT AKTV8.COM TO LEARN MORE OR CONTACT US



Constant Monitoring

Monitors and alerts drivers of tire pressure and temperature.

PressureTech™ Onboard Scale Kit

Universal Kit - includes push to connect fittings - 003055

- ▶ Custom light-weight sensor assembly eliminates adapters that can leak.
- ▶ Sensor will transmit updates every 60 seconds; with a maximum battery life of up to 3 years.
- ▶ Tee push to connect fitting for both 3/8" and 1/2" DOT air line equipped vehicles
- ▶ Zip ties include to secure Air line assembly



TECHNICAL SPECIFICATIONS

	TPMS				Range Extender	Gateway & External Light	Onboard Scale	
	Thru Sensor		Cap Sensor					
	Qty 4	Qty 6	Qty 8	Qty 10				Qty 4
Part Number	3458	3459	3460	3461	003462	003194	003605	003055
Use Case	Stem mounted Thru Sensor				Stem mounted Cap Sensor	Range Extender, required for trailer	Trailer -TPMS with warning light	Air Suspended Axle Load
Contents	Thru Sensor(s)				Cap Sensor(s)	Range Exender	Gateway Module, External Warning Light, Wire Harness	Sensor with 3/8 & 1/2 PTC fittings
ATIS Compatibility	Yes				N/A	N/A	N/A	N/A
Temperature Operating Range	-40°F to 185°F / -40°C to 85°C				-40°F to 185°F / -40°C to 85°C	-40°F to 185°F / -40°C to 85°C	-40°F to 185°F / -10°C to 85°C	-40°F to 185°F / -40°C to 85°C
Ingress Protection Code (IP)	IP67 – IP6K9K				IP67 – IP6K9K	IP67 – IP6K9K	IP67 – IP6K9K	IP67 – IP6K9K
Pressure Range	0 to 200 PSI / 13.8 BAR				0 to 200 PSI / 13.8 BAR	N/A	see sensor	0 to 200 PSI / 13.8 BAR
Pressure Accuracy Range	±1.5%				±1.5%	N/A	see sensor	±1.5%
Temperature Accuracy Range	±3°F / ±1.2°C (±2.0%)				±3°F / ±1.2°C (±2.0%)	N/A	see sensor	N/A
Working Voltage	3V				3V	9-16V DC	9-16V DC	3V
Battery Type, Replaceable	CR1632				CR1632	Wired	Wired	CR1632
Wireless Capability	BLE 5.0, 2.4GHz				BLE 5.0, 2.4GHz	BLE 5.0; 2.4Ghz	BLE 5.0, 2.4GHz	BLE 5.0, 2.4GHz
Range (free air)	32 ft / 10 m				32 ft / 10 m	50 ft / 15m	33 ft / 10 m	32 ft / 10 m
Status Update	90sec				90sec	same as sensor	N/A	60 sec, 15 sec while loading
Immediate Leak Alert	>10 PSI, 15 sec				>10 PSI, 15 sec	same as sensor	N/A	
Approximate Battery Life	6 yrs				6 yrs	N/A	N/A	3 yrs
Physical Size	1.53" x 0.82" (39mm x 21mm)		0.84" x 0.68" (21.5mm x 17.4mm)		4.92"(W) x 3.98"(D) x 1.76"(H) 125mm(W) x 101mm(D) x 45mm(H)	4.92" x 3.98" x 1.76" (125mm x 101mm x 45mm)	0.84" x 0.68" (21.5mm x 17.4mm)	
Weight	0.64 oz (19 g)		0.33 oz (8 g)		6.26 oz. (180 grams)	6.26 oz (~177 g)	0.33 oz (8 g)	
Warranty	3 yrs				3 yrs	3 yrs	3 yrs	3 yrs
User Interface / Display	BYOD – iOS / Android Mobile App		BYOD – iOS / Android Mobile App		N/A	BYOD – iOS / Android Mobile App	BYOD – iOS / Android Mobile App	
Telematics ready	Yes – contact AKTV8 for Enterprise implementation							

AKTV8

CONTACT US

visit AKTV8.com
call 1(888)-342-3162
email info@aktv8.com

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IN MOTION***