

CASE STUDY

Wayne Taylor Racing (WTR) Ensures Tyre Pressure Accuracy with the Shaw SDHmini Handheld Hygrometer

Wayne Taylor Racing (WTR), a premier motor sports team competing at the highest level, has earned two IMSA driver championships (2013, 2017), consecutive IMSA Michelin Endurance Cup titles (2020, 2021) and contributed to nine IMSA manufacturer championships with Acura, Pontiac, Corvette and Cadillac.

In just 18 years, WTR has won major sports car events including the Rolex 24 At Daytona, Twelve Hours of Sebring, Petit Le Mans, Mid-Ohio, Road America and Six Hours of The Glen. The team also holds back-to-back PRO Class titles (2022, 2023), fourteen North America Lamborghini Super Trofeo championships, and a Lamborghini World Finals title.

OBJECTIVES

Ensure predictable tyre behaviour under race conditions whilst adhering to strict racing regulations, ensuring consistency in pressures across all tyres for ideal performance without triggering penalties.

1. Implement real time, accurate trace moisture monitoring and measurement of tyre pressure.
2. Reduce downtime on verification of readings and/or correcting equipment errors.
3. Remove inconsistencies compromising correct tyre pressure control.
4. Improve tyre preparation efficiency.
5. Improve tyre performance data.

SOLUTIONS

WTR uses the Shaw SDHmini handheld hygrometer, featuring a desiccant dry-down assembly, high-capacitance aluminium oxide sensing technology and AutoCal function, paired with the portable sampling system for accurate, repeatable measurements in any environment. Shaw's system enables flow control without depressurising tyres or wasting gas. The desiccant head assembly keeps the sensor dry for fast, reliable, consecutive readings and with a long battery life, the SDHmini ensures uninterrupted use track side and in the field.

BENEFITS

1. Improved tyre pressure consistency
2. Enhanced tyre predictability
3. Consistent performance
4. Performance advantage with more stable grip and control

Overall, monitoring and minimising moisture in racing car tyres ensures safer, more reliable and ideal racing performance.

AT A GLANCE

Challenges

- Inconsistent tyre pressure control
- Unreliable performance data
- Incorrect tyre preparation
- Inaccurate readings

Benefits

- Fast, reliable results
- Trusted results
- Reliable trace moisture measurement equipment
- Confidence in tyre behaviour and performance



Their solutions are trusted by professionals across multiple industries who cannot afford to get it wrong.

When performance, accuracy and safety matter, Shaw stands out.

August Lemmond

Tyre Performance Engineer
Wayne Taylor Racing