

AE Field Service Maintains Accuracy of Pyrometers at Tenneco Automotive Components Plant

<p>INDUSTRY</p> <p>Manufacturing</p>	<p>SOLUTION</p> <p>Impac Pyrometers</p>	<p>EQUIPMENT</p> <p>Automotive Components</p>
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CHALLENGE

Annual calibration is critical for maintaining pyrometer accuracy in processes where temperature control is required for yield, quality, and safety. Tenneco is a global provider of automotive components that utilizes AE’s experienced Field Services for annual on-site maintenance in their Dačice, Czechia facility. This ensures their pyrometers are optimized for measurement accuracy with the ability to trace and trust measured values according to ISO standards and to reduce process deviations. It's especially important for their customers and auditors have evidence that their process is under control.

SOLUTION

Tenneco employs 52 AE pyrometers for process monitoring in their facility and has an annual AE Total Service Plan including Field Services.

Our Field Service engineering team visits the site once per year to complete the calibration of all pyrometers in a convenient and quick 3-day visit. During this time, the pyrometers are inspected, calibrated, and cleaned. When needed, pyrometers are aligned (adjusted) and returned to function within the operating specifications.



Impac IGA 140-23



AE pyrometers mounted in equipment used as part of Tenneco's hardening and tempering processes.



Impac ISR 12-LO

RESULT

Utilizing our pyrometer service database, AE analyzed pyrometer temperature measurement and performance data to capture accuracy drift over one year of operation between our 2023 and 2024 annual fall visits. The average operating time was 6700 hours among the 52 pyrometers and we observed temperature accuracy drift across four models: IGA 140-23, IP 140, IP 140-LO, and ISR 12-LO.

During our visit, all drift was corrected and all pyrometers were left calibrated and adjusted to read within their specifications, ensuring measurement accuracy.

CONCLUSION

By partnering with AE, our customer ensures their pyrometers are operating at an accuracy level which is traceable to regional standards, within specification, and in line with the needs of their processes and quality systems. In addition, AE's on-site service is a fast and convenient way to achieve this goal, especially when the alternative of shipping units to a service center costs more. Over many years of annual visits, Tenneco has expressed satisfaction with AE's service, and we continue our collaboration to lead the industry in service, performance, and quality.

TENNECO



Production area for hardening and tempering



Manufacturing facility located in Dačice, Czechia



A batch of automotive intake valves being manufactured at this facility



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