



Wayne

Automatic Temperature Compensation



Eliminate Uncertainty and Increase Fuel Purchasing Equity in the Market Place

You know how critical your fuel meter is to ensure a perfectly accurate fuel delivery. Now, thanks to Dresser Wayne's Automatic Temperature Compensation technology (ATC), you have another tool for maximizing accuracy and functionality regardless of the fuel temperature. Already a recommended and common practice for Compressed Natural Gas and Liquefied Petroleum Gas dispensers, ATC is now available for traditional petrol/diesel pumps.

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How ATC works

ATC measures the temperature of petroleum products during delivery and automatically computes the volume that would have been dispensed at 15°C, a reference temperature that is a long-standing international standard for the purchase and sale of petroleum products. Since temperature variations can cause fuel volumes to fluctuate, this computed “constant temperature” volume ensures that consumers receive the same amount of petrol energy per litre. “Temperature compensation” works regardless of the grade of fuel or the temperature at which it is dispensed so a different reference temperature will not change the accuracy and related savings.

How retailers benefit

Fuel retailers often purchase fuel on a temperature compensated basis, so ATC allows them to sell product the same way. They may now use a compensated “liter” to the very end of the distribution chain, the retail pump. This simplifies product inventory reconciliation and helps ensure dispenser and meter control and reliability. Dresser Wayne ATC systems are now available as a factory supplied modular option for petrol dispensers and can be easily retrofitted onto pumps that utilize our iGEM electronics module and either the iMeter™ or Xflo™ fuel meter. A simple, compact and self-calibrated ATC module with highly accurate temperature-sealed probes allows customization to your dispenser configuration as well as fuel type and density.

How consumers benefit

The improved accuracy that benefits fuel retailers also helps consumers. Thanks to ATC, they’ll get the fuel energy they paid for — not more, not less. Consumers benefit from ATC’s accurate measurement because it ensures that the amount of energy they purchase is not affected by the temperature of the fuel. The sale display automatically shows the temperature compensated price and volume amounts to prevent confusion. In addition, a dispenser decal reads “T= 15°C” to inform users that their fuel delivery has been adjusted to compensate for temperature fluctuations.

As consumers become increasingly knowledgeable about issues related to temperature compensation, they will appreciate enhanced fuel purchasing equity at their petrol station.

For more information on our ATC technology, please visit www.dresserwayne.com or contact your Dresser Wayne sales representative.

