

30.04.2009 - News Item: GPA Standard 2172-09

GPA Standard 2172-09/API MPMS Chapter 14.5 was published in January 2009.

QuantityWare has carefully analyzed GPA Standard 2172-09/API MPMS Chapter 14.5.

The standard presents procedures for calculating, at base conditions from composition, the following properties of natural gas mixtures: gross heating value, relative density (real and ideal), compressibility factor and potential hydrocarbon liquid content (which in the U.S. is typically expressed as GPM, the abbreviation for gallons of liquid per thousand cubic feet of gas).

This standard supersedes previous editions of GPA Standard 2172 / API MPMS Chapter 14.5, "Calculation of Gross Heating Value, Relative Density and Compressibility Factor for Natural Gas Mixtures from Compositional Analysis".

For dehydrated and processed gas, it can be expected these changes have little to no impact, however for water saturated, or partially water saturated gas at relatively low pressures, changes to heating value, relative density and GPM may be significant.

QuantityWare BCG 10A customers typically utilize BCG 10A conversions for LNG and processed gas, thus no immediate action is required. BCG 10A customers can contact QuantityWare any time for detailed guidance on quantity conversions for water saturated or partially water saturated gas, which is already possible using the ISO 6976 approach.

A complete implementation of all relevant GPA 2172-09 calculation routines for BCG 10A will be shipped with our next service pack (BCG 10A SP02). The planned shipment date is in Q2 2010.