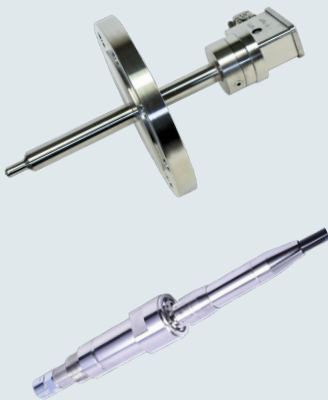


Industry standards on gas quality

Raman Rxn5 analyzer (syngas/LNG) and Raman Rxn4 analyzer (LNG)



Raman Rxn5 and Raman Rxn4 analyzers
with Rxn-41 probe (LNG) and Rxn-30
probe (gases)

Gas standards

ASTM D3588-98 (2017) Standard Practice for Calculating Heat Value, Compressibility Factor, and Relative Density of Gaseous Fuels

GPA 2172-09 (2009); GPA 2172-19 (2019) Calculation of Gross Heating Value, Relative Density, Compressibility and Theoretical Hydrocarbon Liquid Content for Natural Gas Mixtures for Custody Transfer

GPA 2145-09 (2009); GPA 2142-16 (2016) Table Of Physical Properties for Hydrocarbons and Other Compounds of Interest to the Natural Gas Industry

GPA 2261-00 (2000); GPA 2261-20 (2020) Analysis for Natural Gas and Similar Gaseous Mixtures by Gas Chromatography

ISO 6976:1995, ISO 6976:2016 Natural gas – Calculation of calorific values, density, relative density and Wobbe index from composition

Raman standards

ASTM D7940-21 Standard Practice for Analysis of Liquefied Natural Gas (LNG) by Fiber-Coupled Raman Spectroscopy

ASTM E1840-96(2014) Standard Guide for Raman Shift Standards for Spectrometer Calibration

ASTM E2911-13 (2013) Standard Guide for Relative Intensity Correction of Raman Spectrometers

ASTM E2529-06 (2014) Standard Guide for Testing the Resolution of a Raman Spectrometer

Application standards

TR56:2020 Technical reference for LNG bunkering

DNVGL-RP-G105 Development and operation of liquefied natural gas bunkering facilities

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