

METHANE FROM FLARING TOOLKIT



Composition: On-Line

Uncategorized > Composition: On-Line

Summary

On-line analytical methods involve extracting a sample from a process system via an automatic sampling system and analysing it continuously with a field installed analyser system.

How it Works

On-line analyser systems are widely used methods to determine gas compositions on most oil and gas operating facilities. These systems will cover a variety of applications with different types of analysers.

On-line analysis methods that can be used on flare systems, are as follows, but not limited to:

- Flare gas analyser incorporating Wobbe Index (Calorimeter) and Specific Gravity

- Gas chromatograph for gas compositions
- Individual Wobbe Index and Specific Gravity analysers

These systems operate continuously, and provide regular updates to the operating system, up to every fifteen (15) minutes. These results are then utilised within the operating system to provide continuous emissions results. These systems are often required to be installed to satisfy regulatory or operating agreement requirements.

Regular calibration is required for these on-line analytical systems to maintain their accuracy.

On-line analysis is widely used in the Oil and Gas Industry.

Advantages

- ✓ Continuous analysis
- ✓ High accuracy
- ✓ Low uncertainty

Limitations

- ✗ High maintenance costs
- ✗ System maintenance requires a high level of expertise
- ✗ High equipment costs

Go Deeper

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Case study

No case study available at this time.

Do I know the gas composition?



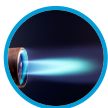
Composition: Spectrometry (GC – MS)



Composition: Laboratory Analysis



Composition: Specific Gravity Analyser (Relative Density)



Composition: Wobbe Index Analyser (Calorimeter)



Composition: Gas Chromatograph