



A SOLUTION FOR REFINERIES /

Real-time, accurate H₂S measurement during HDP catalyst activation

Leveraging our expertise in handling H₂S, Carelflex[®] Service by Arkema has developed a unique tool that our team incorporates within your process to safely and accurately quantify and measure H₂S in recycled hydrogen. Our patent-pending H₂S Inline IR Analyzer meets the global needs of the industry while providing the optimal balance of safety, reliability, and portability.

Our infrared spectroscopy technology provides multiple benefits

- * Safe and user-friendly. A fully enclosed system improves the H₂S exposure risk profile.
- Dedicated teams for DMDS injection. We continuously measure H₂S during the catalyst sulfiding process.
- Real-time data. Arkema provides useful tools to better manage the catalyst sulfiding operation according to catalyst manufacturer procedures and guidelines.
- Reliability, selectivity, and excellent accuracy. Continuous and accurate measurement of H₂S concentration.



2 sec

H₂S Inline IR Analyzer provides real-time readings every 2 seconds

0.03-5%

Our technology can measure a wide range of H_2S concentration from 0.03% to 5%



A better alternative

Classic H_2S quantification involving H_2S reactive tubes depends on operator experience for accurate readings, which creates a real risk of toxic gas exposure. Arkema's technology enhances technical accuracy and significantly improves the worker safety profile during your hydrotreating unit startup.

Carelflex[®] Service helps manage DMDS injection

During catalyst activation, Carelflex[®] operators use the H_2S Analyzer to quantify the H_2S in the refinery's recycle or once-through gas during HDP catalyst activation.

Product and user data

Utilities required

- 🔅 Robust design
- ✤ Real-time readings every 2 seconds

- * No on-site calibration required

- ☆ Recycle gas sample into analyzer
- ✤ Analyzer outlet to flare-line connection
- 🔅 Nitrogen



EUROPEAN REFINERY EXAMPLE

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