

Model BRM 941-LS

Liquid Sulphur Analyzer System

Analyzer H₂S and H₂S_x in Liquid Sulphur

Residual H₂S in Claus-produced sulphur contains both H₂S and H₂S_x, which exist in equilibrium with elemental sulfur (S₈).

- **Analyses can be conducted in 2 minutes**
(wet chemical method requires several hours)
- **Analyses independent of operator skill**

The use of state-of-the-art Fourier transform infrared spectrometers allows the resolution of the H₂S and H₂S_x absorptions giving accurate ($\pm 10\%$ of the measurement value) determinations of total H₂S in the 0-350 ppmw range with quantification down to 2 ppmw.



Key Component

FTIR Analyzer
Calibrated heated cell
Sulphur sampling device (hot pot)
Proprietary software package

Can be used for:

- Verification that run-down pit liquid sulphur meets specification
- Verification that degassing process is producing on spec product
- Monitoring and control of degassing process
(energy consumption management)
- Providing documented Quality Assurance for marketing of liquid sulfur product
- Allowing assessment of safety issues in the handling of the liquid sulphur
- Monitoring of performance of catalytic convertors in Claus train.
(high H₂S residual may indicate low catalyst activity.)
- Determination of H₂S content in front end furnace condenser stream

Analysis time: 2 minutes

Accuracy: $\pm 10\%$ of total residual H₂S

Calibration : H₂S_x = 150 ppmw

Limits: H₂S = 200 ppmw

Total = 350 ppmw

Head office: 7000 Fisher Road S.E. Calgary, Alberta Canada T2H 0W3 Tel: 403.252.8470 Fax: 403.255.06287
Galvanic Applied Sciences USA Inc. 41 Wellman Street, Lowell MA 01851 Tel: 978.848.2701 Fax: 978.848.2713
Houston Office 13211K Windfern Road, Houston Texas, 77064 USA Tel: 281.477.9002 Fax: 281.477.9004

info@galvanic.com • www.galvanic.com

BRM 941-LS

WWW.GALVANIC.COM