**Luminos TDL**  
**Model 34 Online H₂S Analyser**

The ATAC Luminos TDL hydrogen sulphide (H₂S) analyser utilizes a tunable laser for precise measurement, even at very low concentrations.

### Benefits
- Factory calibrated
- Direct Absorption Spectroscopy
- No field calibration required
- Intrinsically Linear
- Ultra-low Noise
- Low Maintenance
- Simple, automated field validation

### Features
- Laser based analyser with no moving parts
- No expensive consumables or hazardous tapes
- Superb linearity is intrinsic to the measurement method
- Excellent long term stability
- Laser lifetimes typically greater than 10 years
- Specific measurement, no interference from other gases
- Single factory calibration over the whole range
- Real time measurement with fast response time
- Sample wetted parts are treated to avoid sulphur absorption
- Large dynamic ranges up to 4,000ppm
- Repeatability better than 0.5ppm

### Applications
- Natural gas processing, storage and distribution.
- Refinery processes and final products.
- Petrochemical processes & Catalyst Protection
- LNG processing and NGL products.
- Speciality gases and other non-condensable gases on request.
Infra Red Spectroscopy: The instrument operates by measuring the absorbance of infra-red light by the gas species of interest. The range of operational wavelength depends on the specific instrument but is typically 0.7 to 2.6µm. Most gases have absorption chromophores in this range, and the instrument can be factory configured, by selection of the laser diode fitted, to measure a wide range of analytes.