

## IP 570 Proficiency Testing Scheme

### IP 570/15

The IP 570 Proficiency Testing Scheme (PTS) is an inter-laboratory, quality assurance programme which enables users to continually monitor the performance of their H<sub>2</sub>S Analyser in accordance with ISO/IEC 17025. This is achieved by testing a sample with a known, but undisclosed, H<sub>2</sub>S concentration.

### Aim of Proficiency Testing

Proficiency Testing is defined as an evaluation of participant performance against pre-established criteria by means of interlaboratory comparison (ISO/IEC 17043). Proficiency Testing aids laboratories in achieving accurate and reproducible results and therefore provides reassurance in the laboratory's testing.

### Method Compliance

Validation of apparatus performance is stated as a mandatory requirement at least every 3 months in IP 570/15. Participation in the Seta IP 570 annual Proficiency Testing Scheme is stated as the preferred means to achieve this requirement as it enables laboratories to evaluate their performance for testing H<sub>2</sub>S in the liquid phase using the Seta H<sub>2</sub>S Analyser.

### Summary Report Content

- A table detailing the data reported
- Z-score performance indicators
- An evaluation of the findings
- Advice relating to any action required
- A summary of the scheme
- Comments relating to inconsistent data

Z-scores are calculated from taking the ratio of the difference between the mean and the mean test result and the test method reproducibility standard deviation. The Z-score is an indication of performance against the published test method precision.



### Benefits of Participating in the PT Scheme

- Continual validation of laboratory and apparatus performance
- Ability to demonstrate compliance with laboratory accreditation requirements (ISO 17025)
- Diagnostic support provided if incorrect results are reported
- Inter-laboratory comparison of test results and performance
- Identifies problems such as inadequate test or measurement processes and procedures
- Repeat samples available for incorrect and result investigation
- Easy online result reporting
- Z-Score performance indicators
- Identifies problems with the calibration of laboratory test equipment

### Annual Subscription

Comprises; 4 PT Scheme kits distributed over a 1 year period. Kits are only distributed in January, April, July and October.

