

# Ultraviolet Hydrogen Sulphide and/or Odour Monitoring Systems



These systems have been designed for the continuous monitoring of Hydrogen Sulphide ( $H_2S$ ) and/or other 'odours' within the Outlet stack after odour control equipment on Waste Water Treatment Works. Various ranges of detection are available from low ppb to ppm levels ( $H_2S$ ). Also used to sequentially sample other ducts around the odour control plant with the aid of modern dilution systems.

## FEATURES AVAILABLE

- Sampling and conditioning equipment
- Suitable for Zone 1 or Zone 2 classified gas streams
- Analogue 4–20 mA signals
- Volt free contacts for flow failures
- Text messaging fault conditions (see Wireless Communications brochure) or remote interface with equipment through clients modem connection
- Viewing window
- Security key lockable cabinet versions

## FACILITIES AVAILABLE

- Design
- Manufacture
- Installation
- Delivery
- Commissioning
- Demonstration
- Training
- Servicing
- Hire

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### SYSTEM SPECIFICATIONS

- System can be configured to operate from either 110V or 240V mains supply.
- Standard cabinet is supplied on a plinth with viewing window and must be located within a relatively dust free environment with heating and lighting.
- High temperature version available to “crack” sulphurs at 625°C. Produces three Analogue 4–20 mA signals a) SO<sub>2</sub> only; b) Total Sulphur (SO<sub>2</sub> + H<sub>2</sub>S + Mercaptans + some NH<sub>3</sub>); c) Total Reduced Sulphur b) minus a).
- Low temperature version available to crack “H<sub>2</sub>S” only at 300°C. Produces three Analogue 4–20 mA signals a) SO<sub>2</sub> only; b) Combined Sulphur (SO<sub>2</sub> + H<sub>2</sub>S + some Mercaptans, less than 5%); c) Hydrogen Sulphide b) minus a).
- Proven sample line length up to 100 metres using specialist tubing.
- Optional flow failure facility on sample pump (VFC).
- Optional text messaging of alarm and fault conditions – subject to suitable network coverage.
- Supplied with plinth for floor mounting in designated safe area.
- Dilution system option for high level gas streams and/or sequential sampling other gas streams on the odour control plant back to a single analyser.
- Pumped system to counter the issues related with differential pressure systems caused by changes in flow and pressure.
- Standard system to be serviced every 6 months. This may reduce based on site conditions or may increase if our dilution system has been included.
- Standard instrumentation cabinet 1600 x 600 x 850mm.
- Safety systems installed to meet HSE judgement on ATEX Directive for Zone 1 and Zone 2 gas stream applications.
- Standard systems can be easily modified for multi gas applications or to meet specific site requirements as necessary.

