ABLE INSTRUMENTS & CONTROLS

JEROME® J605

THE 'GOLD STANDARD' HYDROGEN SULPHIDE ANALYSER

BROOKFIELD AMETEK

UNIQUE AND UNRIVALLED GOLD FILM TECHNOLOGY

- No PC Software Required
- 20,000 data logging points
- Low Detection Level – 3ppb
- Resolution 20ppt
- Stores Date, Time and Locations
- USB Interface for Data Transfer
- SCADA Interface via 4-20mA Output
- 18-hour battery life
- Battery Powered Sensor Regeneration, 24 Hour Battery Life

ABLE

RUGGED, RELIABLE NUISANCE ODOUR MONITORING

Portable, easy to use, low-level hydrogen sulphide detection – the Model J605 represents the latest generation of Ametek Brookfield's Jerome analyser family and utilizes industry-proven gold film sensor technology to detect hydrogen sulphide (H_2S) at levels as low as 3 parts per billion (ppb) with a resolution of 20 parts per trillion (ppt).

H_2S is a colourless gas with a rotten egg odour and the potential to ignite at relatively high temperatures. At high concentrations it can be extremely toxic and will readily form sulphuric acid in its hydrated form.

Not only does the Jerome deliver unparalleled sensitivity, it also exhibits matchless specificity, giving no response to hydrocarbons, carbon dioxide (CO_2), sulphur dioxide (SO_2), carbon monoxide (CO) and water vapour.

The Instrument is calibrated to Internationally traceable standards, ensuring optimum accuracy across the sensors full range of 3ppb to 10ppm.

The Jerome is the analyser of choice for government agencies and regulatory bodies such as:

SEPA Scottish Environment Protection Agency

Cyfoeth Naturiol Cymru Natural Resources Wales

Environment Agency

epa Environmental Protection Agency

HSE Health and Safety Executive

ABLE Instruments & Controls Ltd are **Brookfield Ametek's exclusive representative** for sales and service in the UK and Ireland

Typically deployed in landfill, water treatment and waste management facilities, it's ergonomically designed, durable metal housing and 18-hour battery life mean the J605 is tough enough for nearly any environment and always ready when you need it. The integrated data logging system of the J605 can store data for up to 20,000 samples, including date, time and up to 80 locations.

The intuitive interface of the Jerome is another key feature; the J605 provides simple menu driven operation with easy to understand diagnostics and error detection. No PC software is required and data transfer is via a USB stick.

Jerome J605:
Fixed Monitoring at Mogden

WATER COMPANIES ACROSS THE UK USE JEROME ANALYSERS SUPPLIED BY ABLE TO MEET STRINGENT ENVIRONMENTAL STANDARDS

H_2S often results from the bacterial breakdown of organic matter in the absence of oxygen, such as in swamps and sewers; this process is commonly known as anaerobic digestion and is why H_2S nuisance odours are commonly associated with sewage treatment works.

Although water companies may deploy several portable units for survey purposes in order to "sniff" out the sources of nuisance odours, boundary monitoring requires a fixed network of analysers such as that deployed by Thames Water at their Mogden Sewage Treatment Works (STW).

Mogden STW is situated in a densely populated area with domestic housing adjacent to three site boundaries. The site has a history of creating air pollution involving the characteristic and offensive rotten egg smell of H_2S. Mogden is the second largest STW in the UK.

As part of a £140m site enhancement, Thames upgraded their nuisance odour monitoring systems by replacing the previous generation of Jerome 631-X H_2S analysers with 15 of the superior model J605 static monitors in environmental enclosures around the site perimeter. Unattended monitoring can be performed over extended periods, using the automated sampling and regeneration functions, with measurements transmitted live via the site SCADA network to provide immediate detection and reporting of the location and magnitude (15ppb threshold) of any odour incidents.

The instruments are maintained by a team of specialist, factory trained ABLE engineers and have a built in facility for the use of a Functional Test Module to evaluate calibration specification and operational viability.

BROOKFIELD AMETEK

ABLE'S JEROME EUROPEAN SERVICE CENTRE AND CALIBRATION FACILITY

ABLE Instruments are Ametek Brookfield's established European Service Centre for the renowned Jerome J605. Fundamental to this arrangement is a dedicated Jerome calibration laboratory, the only one of its kind outside the Pheonix USA factory. The facility supports the Jerome installed base throughout the UK (largest outside the UK) Scandinavia and Europe.

The ratiometric calibration system derives its traceability from a certified gas reference standard and calibrated mass flow controllers. The facility is also comprehensively equipped to offer a full repair and sensor replacement service.

This development is testament to ABLE's continued dedication to providing its Jerome customers with ever improving levels of service and support.

APPLICATIONS

- *Leak Detection*
- *Quality Control*
- *Ambient Air Analysis*
- *Accuracy Check for other Hydrogen Sulphide Monitors and Control Systems*
- *Applied Research*
- *Scrubber Efficiency Testing*
- *Hydrogen Sulphide Source Detection*
- *Control Room Corrosion Monitoring*
- *Landfills*
- *Agricultural Applications*
- *Regulatory Compliance and Permitting*

For more information regarding the Jerome J605 Hydrogen Sulphide Analyser, please email **info@able.co.uk**

JEROME® J605 SPECIFICATIONS

Resolution	20 ppt in Range 0
Detection Range	3 ppb -10 ppm
Accuracy/ Precision Range 0	±1 ppb at 5 ppb/10%RSD
Range 0	±3 ppb at 50 ppb/5%RSD
Range 1	±0.03 ppm at 0.5 ppm /5%RSD
Range 2	±0.3 ppm at 5.0 ppm/5%RSD
Response Time	Manual Range Selection
Range 2	(1.0 to 10.0 ppm) 12 seconds
Range 1	(0.10 to 1.0 ppm) 18 seconds
Range 0	(3 to 100 ppb) 12 to 27 seconds
Auto Range Mode	12 to 52 seconds
Flow Rate	150 ml/min or 0.15 l/min
Power Requirements	12V DC/power adapter
Internal Bat. Pack	Rechargeable nickel metal hydride NiMH
Environmental Range	0-40°C, non-condensing, non-explosive
Interface/Output	Digital: USB serial data to PC, printer, or USB flash drive / Analogue: 4-20 mA passive current loop; accurate to 0.3% of output
Dimensions	11" W x 6" L x 6.5" H/ 28 cm L x 16 cm W x 17 cm
Weight	2.5Kg
Certifications European Communities (CE) and TUV	UL 61010-1:2004 Standard CSA-C22.2 NO. 61010-1-04

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