Score Group companies have employed acoustic emission technology to find leaking valves for oil & gas customers around the globe for the past 15 years. Midas Meter<sup>®</sup> employs Score developed signal processing & electronics, Score proprietary leakage algorithms and a Score proprietary Acoustic Emission sensor. Midas Meter® was developed and is manufactured by Score Group ISO 9001:2008 certified companies.

# Case studies using Acoustic Emission technology:

- Detection of erosion damage in the body and trim of a bypass valve avoided the potentially catastrophic loss of containment of hazardous fluid on an offshore platform which would have led to emergency shutdown and consequential loss of production.
- A leak detection survey reduced the required scope of an offshore shutdown campaign and saved an estimated \$100,000.
- Survey of 61 Pressure Safety Valves and Blowdown Valves found that 7 were leaking to flare with an estimated loss of 85 tonnes/year of gas.

# **Approvals**

Certification acquired for the Midas Meter®is as follows:

# **Compliance Certification:**

- ATEX II 1G Ex ia IIC T4 Ga
- IECEx Ex ia IIC T4 Ga
- CSA Class I, Division 1, A, B, C, D T4 Class I, Zone 0, Ex ia IIC T4 Class I. Zone 0. AEx ia IIC T4
- Hazardous Area Certified Zone 0, 1 & 2
- Intrinsic Safety Classification 'ia'
- R & TTE Directive: EMC Class A (Industrial)
- RoHS
- WEEE
- CE

# Score Group plc Intelligent Valve and Gas Turbine Solutions™ www.score-group.com

# **European Union**



For further information or to request a quotation, please contact us at:midas.enquiries@score-group.com or go to www.midasmeter.com

🔰 @MIDASDiagnostic in.

linkedin.com/company/score-group---valve-diagnostics



Eroded bypass valve



# Give your Operations and Maintenance Technicians the MIDAS Touch<sup>™</sup>



# An innovative step-change in valve leak detection from





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# Score Group plc



### Give your Operators and Technicians the

# -Midas Touch

It is known that LEAKING VALVES represent a MAJOR SAFETY RISK and are a MAJOR SOURCE OF LOST PROFITS

Find leaking valves with Midas Meter® long before detection by conventional methods or instrumentation. Avoid product losses to the flare and fugitive emissions, confidently prepare for maintenance outages and avoid excessive valve damage due to prolonged leakage.

### Use Midas Meter<sup>®</sup> Acoustic Emission Leak Detector for Valves to:

- Quickly find leaking isolation valves, control valves, PSVs and steam traps
- · Detect product losses to flare, vents and drains
- Detect leaks as low as 0.1 litre per minute
- Prioritize valves for maintenance
- Benchmark valve performance during commissioning
- Provide leakage guantification in the following fluids:
- Oil, Gas, Condensate, Water, Steam, Compressed Air
- Provide data storage and analysis in the field via a PDA
- Improve Safety - Improve plant efficiency -
- Find damaged valves - Decrease emissions -
- Don't let valuable product escape to the flare -

Give Operations and Maintenance personnel the tools they need to quickly and confidently find the leaking valves, target the right valves for maintenance, order spare parts and replacement valves ahead of the outage and avoid extended shutdowns.

Use Midas Meter® to increase your operators' confidence levels in their valve leakage performance and measurement test programmes and to create evidence to support their site Safety Case and Safety Integrity Level compliance requirements.

Midas Meter® is an excellent tool to use in Hydrocarbon Leak Detection Programmes and can be used as a best available monitoring method (BAMM) for acoustic leak detection and quantification, in compliance with the US EPA's (Environmental Protection Agency) Greenhouse Gas Reporting Mandate 40 CFR 98 Subpart W 98.234(a)(5).

### Midas Meter<sup>®</sup> Features:

- · Completely portable and easy to use
- · Non-intrusive to the process
- Midas Meter® is certified for use in hazardous areas
- Midas Meter® Ambient temperature range: -20°C to +50°C
- The sensor face temperature range is -50°C to +125°C
- · Waveguides are supplied for use outwith sensor face temperature range
- · Integral LCD display for use without PDA
- Bluetooth communications from handset to PDA
- · PDA for data logging and quantification analysis of leak detection survey
- PC based Communicator software provided to enable:
  - Upload of valve information to PDA
  - Generation of standard reports on the valves surveyed
  - Export of survey data
  - Back up of PDA data
  - Control of software licence and calibration
- For Hazardous area applications a hazardous area PDA is supplied. For non-hazardous areas a ruggedised PDA is supplied. (Contact us for detailed specifications)



Midas Meter® PDA



Midas Meter® Windows Mobile PDA Software

Installation Summan

Midas Meter<sup>®</sup> takes you from reactive to proactive maintenance by engaging in condition based monitoring and "predictive" maintenance activities. Midas Meter<sup>®</sup> valve leak detection equipment therefore helps focus budget expenditure and actions on valves where maximum

benefits can be achieved.

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