

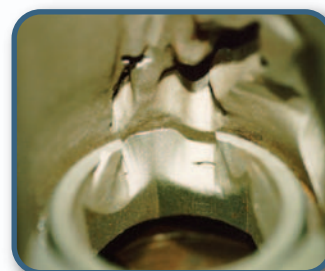
Score Group companies have employed acoustic emission technology to find leaking valves for oil & gas customers around the globe for the past 15 years. Midas Meter® employs Score developed signal processing & electronics, Score proprietary leakage algorithms and a Score proprietary Acoustic Emission 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.



Eroded bypass valve



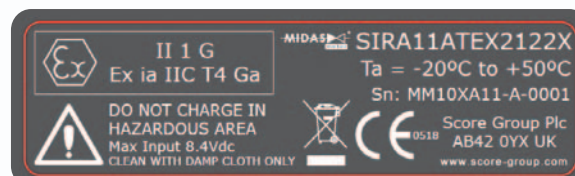
#### Approvals

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

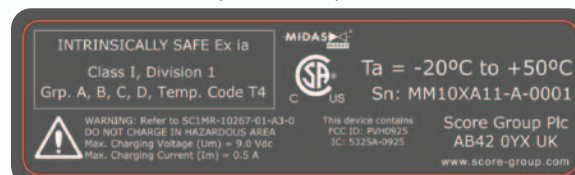
##### European Union



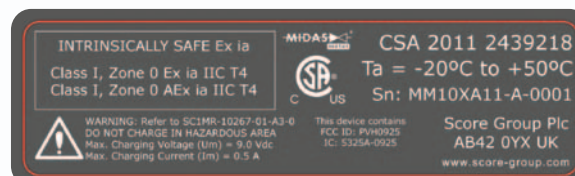
##### International/Australia



##### North America (Divisions)



##### North America (Zones)



For further information or to request a quotation, please contact us at:-  
[midas.meter@score-group.com](mailto:midas.meter@score-group.com) or go to [www.midasmeter.com](http://www.midasmeter.com)

Follow us on [twitter](https://twitter.com/MIDASMeter) @MIDASMeter



Give your Operations and  
Maintenance Technicians the

# MIDAS TOUCH™

An innovative step-change in valve leak detection from  
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® 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 quantification 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® 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

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

MIDAS meter® Installation Summary													
Installation 1 (Score Group plc) from 01/07/2011 to 15/07/2011													
Test Date	Tag Number	Valve Type	Fluid	Fluid Density	Operating Pressure	Overpressure Pressure	Back-sight	Far-sight	Valve	Read-up	Read-down	Far-sight	Leakage
04/07/2011	0500-005	Ball	Gas	0.00kg/m³	50.00bar	10.00bar	20	22	21	21	20	20	0.00kg/min
04/07/2011	0501-001	Ball	Liquid	0.00kg/m³	80.00bar	10.00bar	21	20	20	20	20	20	0.00kg/min
04/07/2011	0502-002	Butterfly	Gas	0.00kg/m³	80.00bar	10.00bar	20	23	27	44	28	28	0.00kg/min
04/07/2011	0503-003	Ball	Gas	0.00kg/m³	70.00bar	10.00bar	21	24	23	20	23	23	0.00kg/min
04/07/2011	0504-004	Ball	Gas	0.00kg/m³	70.00bar	10.00bar	20	23	23	20	24	24	0.00kg/min
04/07/2011	0505-005	Ball	Gas	0.00kg/m³	70.00bar	10.00bar	20	22	23	20	23	23	0.00kg/min
04/07/2011	0506-006	Ball	Gas	0.00kg/m³	20.00bar	10.00bar	21	24	20	20	20	20	0.00kg/min
04/07/2011	0507-007	Butterfly	Gas	0.00kg/m³	80.00bar	10.00bar	20	21	21	21	21	21	0.00kg/min
04/07/2011	0508-008	Ball	Gas	0.00kg/m³	80.00bar	10.00bar	21	21	22	23	23	23	0.00kg/min
04/07/2011	0509-009	Ball	Gas	0.00kg/m³	70.00bar	10.00bar	20	21	21	21	21	21	0.00kg/min
04/07/2011	0510-010	Ball	Liquid	0.00kg/m³	80.00bar	10.00bar	21	21	24	20	20	20	0.00kg/min
04/07/2011	0511-011	Ball	Liquid	0.00kg/m³	80.00bar	10.00bar	21	24	24	21	20	24	0.00kg/min