



Score **Diagnostics Limited**

Intelligent Valve Monitoring™

www.midasvalvediagnostics.com

Latest Innovations for ONS Stavanger, August 2016

Wireless Valve Condition Monitoring



Score Diagnostics Limited is delighted to introduce a wireless valve condition monitoring option, enabling easier retrofitting of the MIDAS® Sensor into existing sites and installation in more challenging environments. Wireless modules are utilised to interface with the MIDAS® Sensors, allowing the sensors to communicate wirelessly with DCS / SCADA / Bespoke Software interfaces. This is the quick, easy, intrinsically safe way to detect, quantify and trend through valve leakage with reduced installation complexity, time and costs that our customers have been asking for.



Midas Sensor
Installed on Valve



Wireless Transmitter Unit
Local to Midas Sensor



Wireless Receiver
650m from Midas Sensor

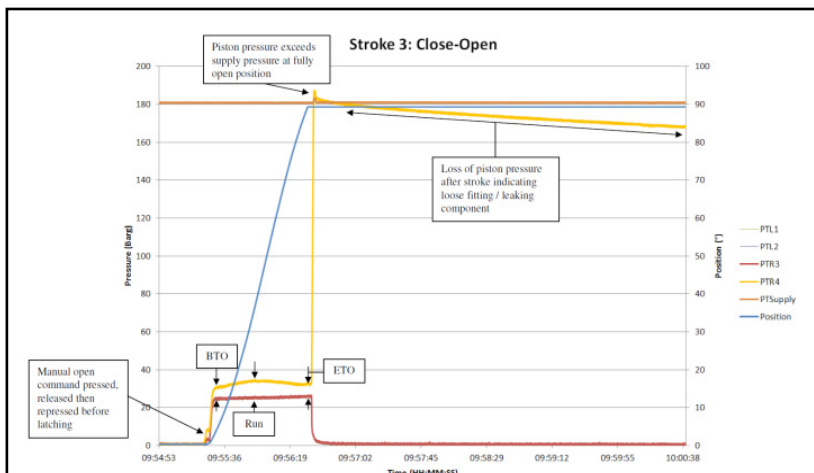
V-MAP® Portable



In light of the current market challenges on availability of investment capital (CAPEX), customers have asked Score to make the market leading valve condition and performance monitoring capabilities of the permanently installed V-MAP® G3 system available in a "portable" format and provide specialist critical valve surveys as a service.

Our new V-MAP® Portable Test Unit has been designed to deliver that service and is now available to deploy immediately. The unit can acquire data from 4 20 mA instruments, 0-5 Volt instruments, limit switches, torque and through valve leakage using Score's MIDAS® Sensor. This allows a flexible approach to create a bespoke test setup for any client, on any valve type at short notice.

The new V-MAP® Portable technology enables quick and easy troubleshooting of problem valves without incurring the costs of installing a full performance and condition monitoring system, making the benefits more easily accessible to clients during the current economic climate



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“RBI” Calculator Enhancement for MIDAS Meter®

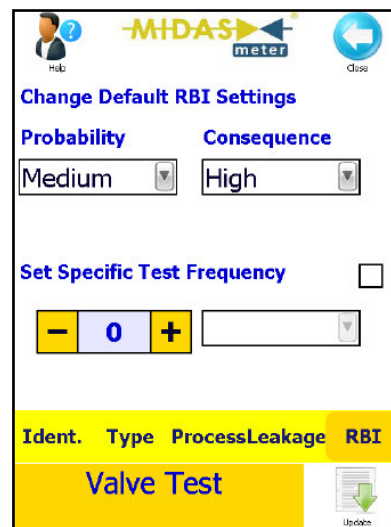
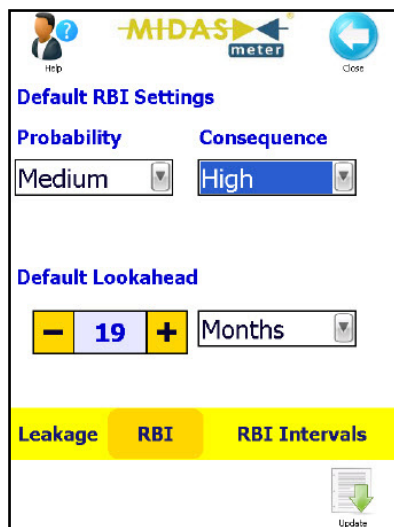


To support the very latest developments and strategies in Asset Integrity Management (AIM) and specifically Reliability Centred Maintenance (RCM) planning and implementation, Score Diagnostics have enhanced the MIDAS Meter® Core and Communicator™ software to now include new functionality and guidance on Risk Based Inspections (RBI) for valves.

Built-in variable and selectable parameters such as “probability” and “consequence of failure” provide users guidance on when each valve in the installed population should optimally be surveyed. Users are able to produce standard “look ahead” and “overdue” reports, detailing which valves are becoming due to be tested as well as highlighting any that are already overdue.

These enhancements guide users and valve owner / operators on RBI Valve surveys which lead to maximised reliability and uptime of processes. Application of this approach delivers operating cost reductions and maximised operating profits.

The system also seamlessly aligns with Score’s Valve Visibility Systems for Intelligent Valve Management™.



V-MAP® G3 SPU Touchscreen



The latest V-MAP® G3 permanently installed valve condition and performance monitoring system has been further enhanced with a local data and configuration access capability.



Field installed instrumentation feeds data back to the Signal Processing Unit (SPU) that is located in a safe area. As part of the design of the SPU, the touchscreen interface allows operator interaction with the system. The extent of this interaction is restricted by choice and not design (i.e. more functionality may be provided via the touchscreen as future developments).

The icons shown in the screen provide local access to the following data and functions:

- Home screen (and is visible on all screens)
- Data generated by the SPU
- Power supply status (The colour of the icon will change to Red when there are problems detected with either of the PSUs)
- System logs and warnings. The colour of this icon will change to Amber, if there are any warnings and change to Red if there are errors - except PSU errors which will show on the PSU icon
- Settings for the SPU and touchscreen
- Maintenance functions