



Guide to QMI Systems Services & Upgrades

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We have put together this guide in response to feedback from customers who are starting to require maintenance and repairs to older systems.

This guide covers systems that may be only a few years old, to those that are more than 20 years old!

Some of the issue being reported are caused by poor maintenance. An example of this is engine systems that report a zero oilmist reading, even when the engine is switched on (as all engines have minimal levels of oil mist when switched on). QMI is here to help you overcome these issues, using this guide we want to help you identify your system and give you the opportunity to upgrade your current system so it runs the newest versions of processors and power units. This will ensure that it continues to be supportable and upgradeable.

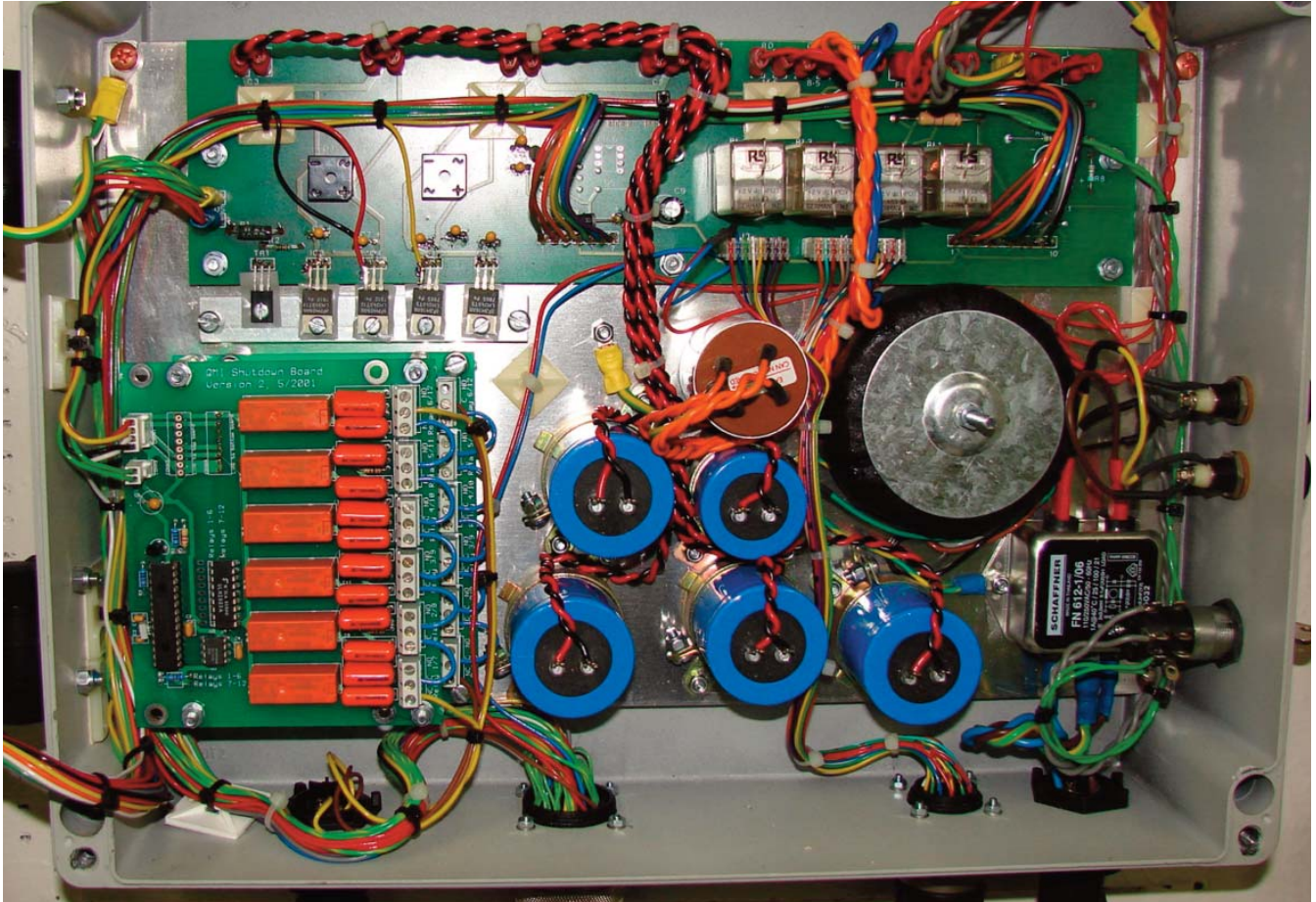
Although on the surface our systems may look the same as they did in 1983, the components and technologies have advanced significantly.

All of our systems can be upgraded, and most will use the original wiring so we will only require you to send back the monitor for the upgrade. Once upgraded they can simply be plugged in to re-install.

Identifying your Power Relay Board:-

There are 3 styles of Monitor Power relay boards:

Style 1: with thoroidal power supply.



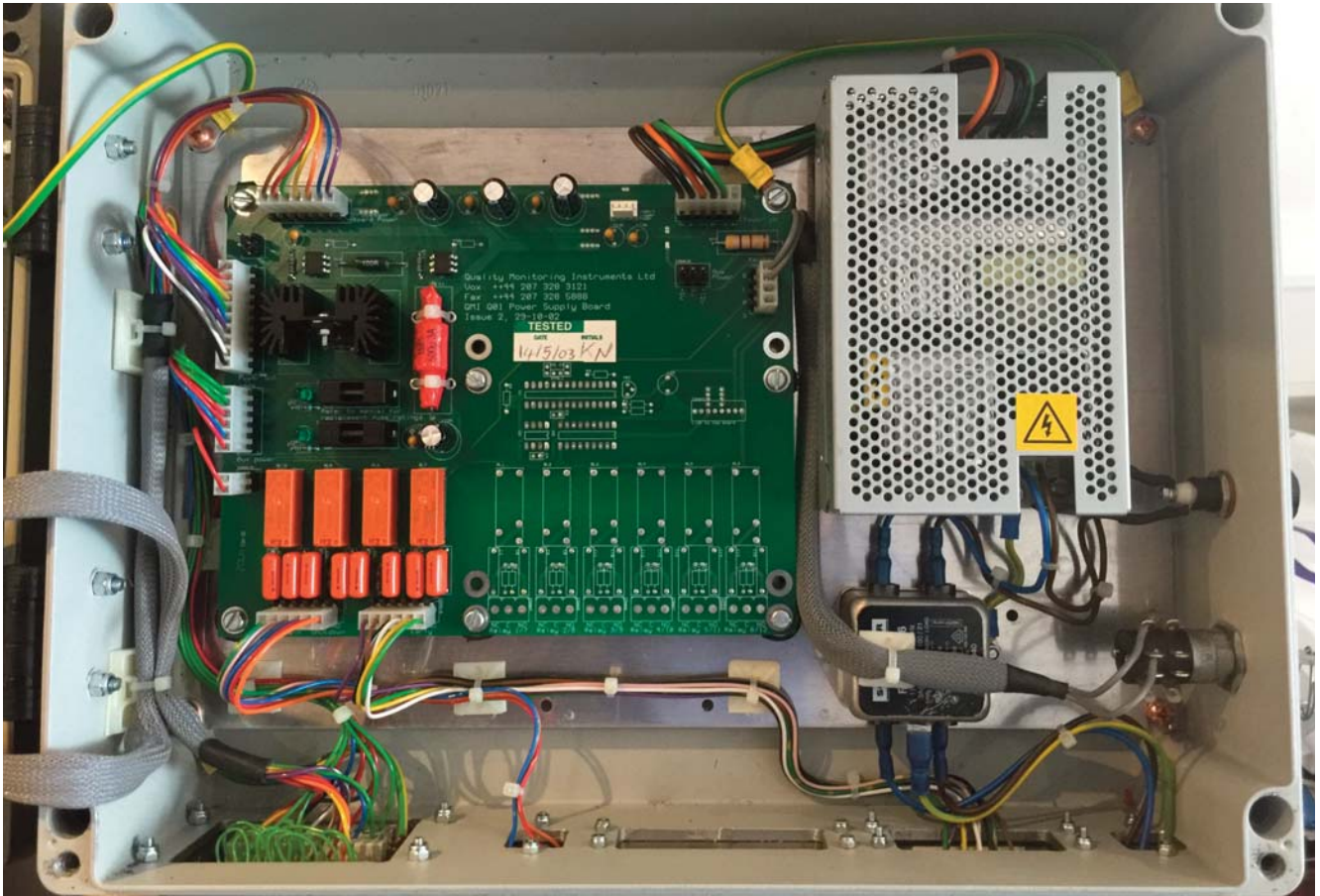
This was used for several different variations of the Multiplex from the earliest models (these have 12 plugs installed into the bottom of the panel and no junction box up to the Harting connectors). The image above shows a Monitor PCB with Individual shutdown 2 x 6.

This image may be different on earlier PCB versions, but all will have the large capacitors on the PCB

PLEASE NOTE: This board is no longer supportable and we recommend upgrading the monitor at the next available dry dock or maintenance period.

During the upgrade your monitor will have new internals, new power supply and relay board with the latest version of MP12 front panel processor board.

Style 2: Monitor Power Relay Board Internals:



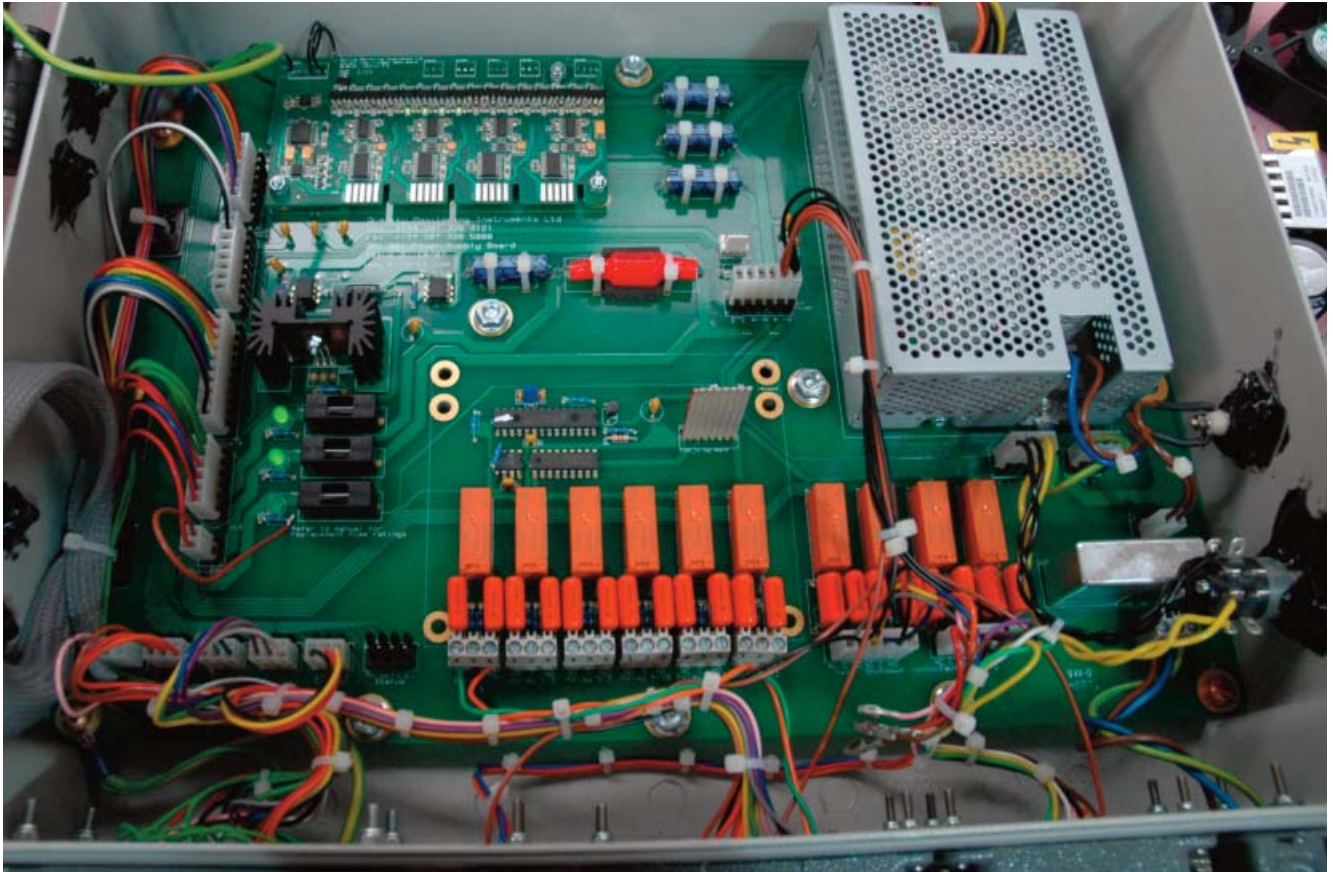
This is the second version of the relay board and power supply with solid state relays, separate power supply bolted to an aluminium plate. This board will only come with Harting connectors (unless upgraded from previous state).

This board is no longer being manufactured but in some cases it can be repaired.

We would suggest upgrading at the next available dry dock or maintenance period to the latest versions to keep your equipment supportable.

During the upgrade your monitor will be checked to determine if MP12 PCB upgrade is also required. We will advise you of this after completing a survey of the equipment.

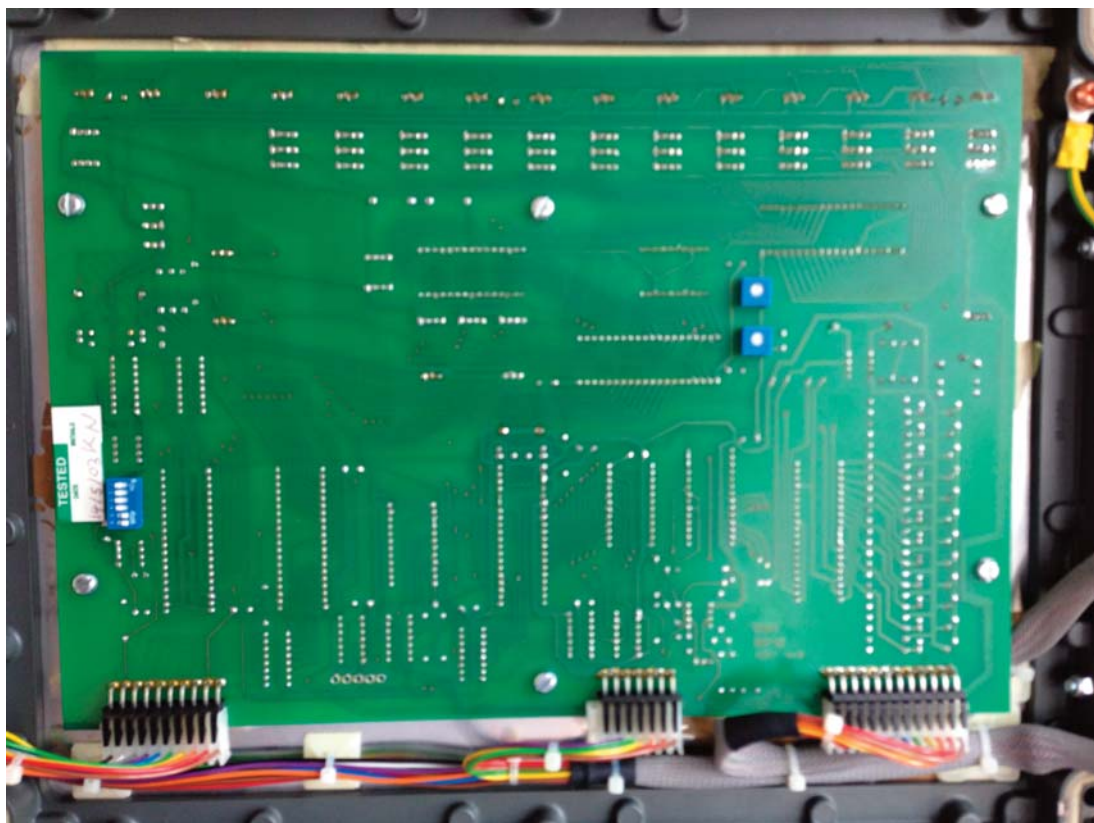
Style 3: Monitor Power Relay Board Internals:



This is the third generation board and the latest version of the system, running in conjunction with the new MP12 processor board. The image shows a board with data logging and 2 x 6 individual shutdown installed on it.

This board is 100% supportable and QMI can repair or replace all aspects of this monitor.

Identifying your MP12 Processor board:



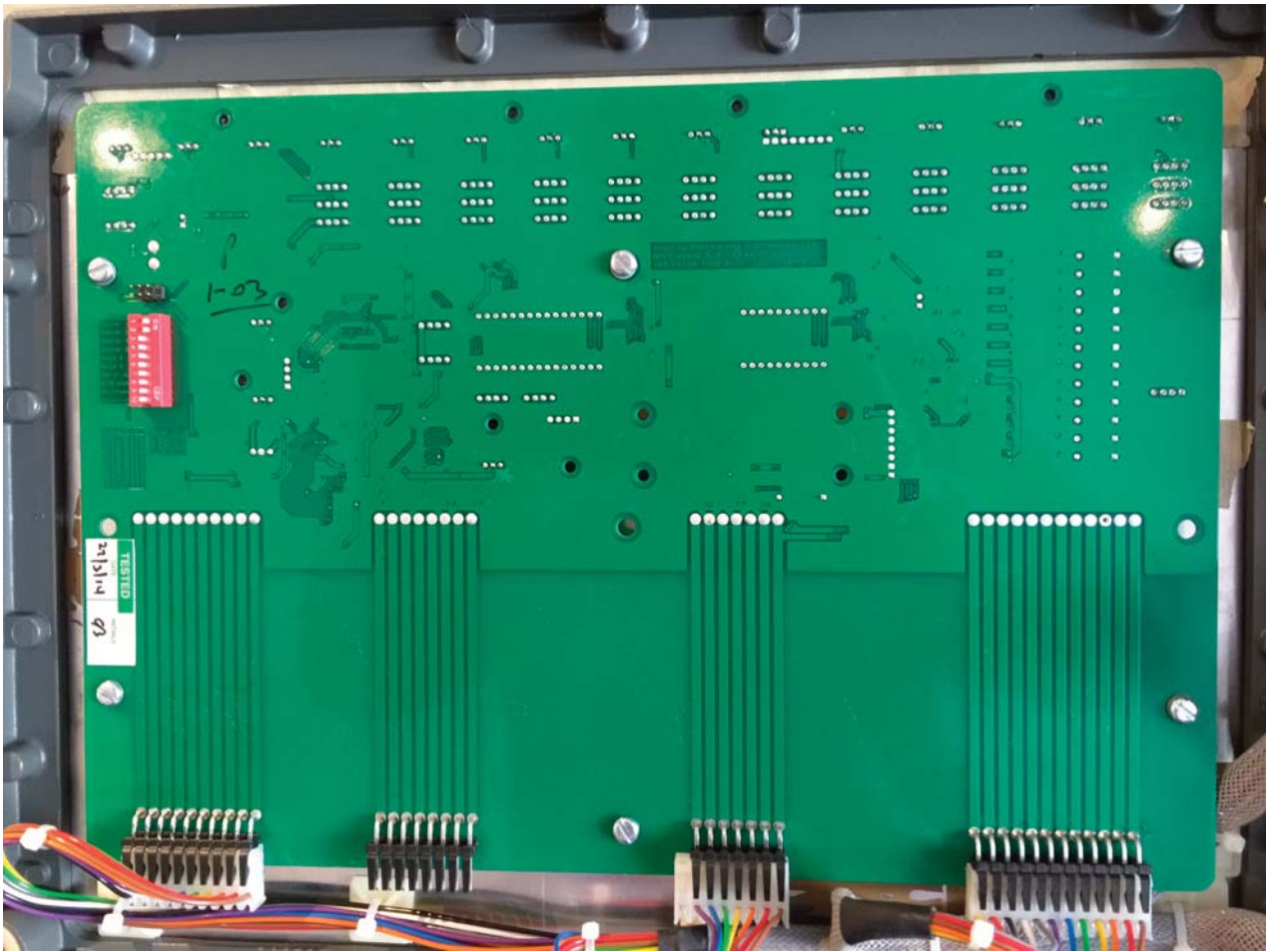
EPROM Version MP12 Board:

Both boards shown above are EPROM style boards.

These boards are no longer supportable and QMI recommend upgrading to the latest versions board with a flash solid state memory which support all new style power supplies.

We recommend servicing your Monitor and upgrading to latest version as end of life pcb's.

Flash Memory Version MP12 Board:



This is the latest version of the MP12 PCB 1.03.

- This PCB will support the latest versions of the power supply boards.
- Features in version 1.03 MP12 PCB
- Solid state memory
- Switchable alarm settings base - levels between 2.0 mg/l and 1.3 mg/l
- CPU test included in test program.



Keeping your equipment going:

We would recommend that all QMI equipment is cleaned when required and serviced every 2-3 years or around vessels maintenance periods.

Please refer to users manual for cleaning procedures of sensors / detectors

If you have a pending service planned, we can schedule you in the diary for your equipment re-calibration and upgrades at the same time.

How to a troubleshoot your system if a zero reading appears when the engine is switched on (engine systems):

1. Check filters in engine detector have been cleaned or replaced.
2. Check that gasket is still sealing the detector and there is no air getting in to the detector.
3. Check alarm settings are not set too high.
4. Check all pipe works and make sure they are air tight.

If none of the above rectify the issue please email: qmi@oilmist.com with the following information:

Serial number of monitor:

Vessel name:

Number of detectors effected:

Describe issue you are having with the system:

Contact name and details: