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| <b>Product:</b> Qflex  | <b>Part No.:</b> 1953, 1954, 1955, 1956, 3262 | <b>Version:</b> V1.400 |
| <b>Date:</b> 12th Apr 2016   | <b>Main purpose:</b> Enhanced protection      |                        |
| <b>V1.400:</b><br><b>Features Added:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Enhanced output current capability</li> <li><input type="checkbox"/> Enhanced temperature measurement ruggedness</li> </ul> <b>Defects Corrected:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Prevent short-term discontinuities from occurring with certain extreme steering files</li> </ul>  |   |                        |
| <b>V1.380:</b><br><b>Features Added:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Added LS model</li> </ul> <b>Defects Corrected:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> -</li> </ul>  |   |                        |
| <b>V1.340:</b><br><b>Features Added:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Enhanced driver impedance measurement accuracy and consistency</li> </ul> <b>Defects Corrected:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> -</li> </ul>  |   |                        |
| <b>V1.320:</b><br><b>Features Added:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Filtering of Slave OpMode signal to enhance production testing</li> </ul> <b>Defects Corrected:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> -</li> </ul>  |   |                        |
| <b>V1.300:</b><br><b>Features Added:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Now allows a different steering pattern to be used in each OpMode (With PodWare V6.02 or later)</li> </ul> <b>Defects Corrected:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Was not reporting Alarm state to PodWare or Sentinel (Since V1.240)</li> </ul>   |   |                        |
| <b>V1.280:</b><br><b>Features Added:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Now recognises up to 6 elements (for Qflex64)</li> </ul> <b>Defects Corrected:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> -</li> </ul>   |   |                        |
| <b>V1.260:</b><br><b>Features Added:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Reduces the possibility of freezing by using thermal management</li> <li><input type="checkbox"/> Minor improvement to communications efficiency</li> </ul> <b>Defects Corrected:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> V1.180-V1.220 could produce some noise during startup</li> <li><input type="checkbox"/> Firmware update could show as failed in PodWare</li> <li><input type="checkbox"/> Firmware update could be started even if one was already in progress</li> </ul> |   |                        |
| <b>V1.220:</b><br><b>Features Added:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> PowerSave mode will now activate even if a pilot tone is present</li> </ul> <b>Defects Corrected:</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> -</li> </ul>  |   |                        |

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| <p><b>V1.200:</b></p> <p><b>Features Added:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Improved monitoring, logging and data dumps for ongoing information gathering</li> </ul> <p><b>Defects Corrected:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Improved sensitivity to the detection of unsolicited tones</li> <li><input type="checkbox"/> Continuous healing of coefficients which might be capable of producing unsolicited tones</li> </ul>  |
| <p><b>V1.180:</b></p> <p><b>Features Added:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> -</li> </ul> <p><b>Defects Corrected:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Active detection of faulty operation was not working on 8 channel models</li> <li><input type="checkbox"/> Unsolicited tones (typically 2kHz) were being produced under some circumstances. This situation is now actively detected and fixed by performing a warm reset on the DSP</li> </ul>  |
| <p><b>V1.160:</b></p> <p><b>Features Added:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Alarms (such as pilot tone loss) only raised if the incident persists for at least 5 seconds</li> </ul> <p><b>Defects Corrected:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Wasn't storing the alarm disable level setting through a power cycle</li> </ul>  |
| <p><b>V1.140:</b></p> <p><b>Features Added:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Improved network communications performance in very large networks</li> </ul> <p><b>Defects Corrected:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> -</li> </ul>   |
| <p><b>V1.100:</b></p> <p><b>Features Added:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Added Pilot tone detection</li> <li><input type="checkbox"/> Added Alarm Defeat</li> <li><input type="checkbox"/> Added Alarm Names</li> <li><input type="checkbox"/> Active detection of faulty operation</li> <li><input type="checkbox"/> Added input LPF</li> <li><input type="checkbox"/> Improved communications performance</li> </ul> <p><b>Defects Corrected:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> -</li> </ul> |
| <p><b>V1.080:</b></p> <p><b>Features Added:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Faster tweeter thermal protection in the presence of sine tones</li> </ul> <p><b>Defects Corrected:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> -</li> </ul>  |
| <p><b>V1.060:</b></p> <p><b>Features Added:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Don't flash the front LED or drop the Fault relay unless more than one driver has failed</li> <li><input type="checkbox"/> Renumbered the Faults, so the number of flashes for a given fault is different (added 2)</li> </ul> <p><b>Defects Corrected:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> The Model Name could become damaged when using version xxx4 of Flash memory</li> </ul>                                      |
| <p><b>V1.040:</b></p> <p><b>Features Added:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Added compatibility with AES3 digital input option</li> <li><input type="checkbox"/> Shows the fault number by flashing the front indicator the appropriate number of times</li> </ul> <p><b>Defects Corrected:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Could sometimes put a protection event or 0's in the logs when power cycled</li> </ul>  |

## V1.020:

### Features Added:

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### Defects Corrected:

- Could sometimes fail to communicate or be slow to communicate

## Installation notes:

- **IMPORTANT:** Update to PodWare V6.16.52 or later on your computer
- Copy the file Qflex\_ xxxxVxxxx.dfw to a known location on your computer
- Start the PodWare application
- Go On-Line to each device requiring an update, and launch the control panel for it
- In the Device menu, select Update Firmware, then follow the instructions
- **IMPORTANT:** Take great care not to disturb the device while it is reprogramming firmware since this could otherwise render the device inoperative
- **IMPORTANT:** When updating the firmware from V1.280 or earlier, OpMode 2 will not contain any steering pattern, so a .bef must be loaded into OpMode 2 if OpModes are in use.