

# PMG1 V2 – Programmable Modulation Generator

## Automatic Identification System (AIS) Tester

### OVERVIEW

The Sine Qua Non PMG1 Programmable Modulation Generator AIS tester was specifically designed to assist AIS developers and manufacturers with their AIS equipment. It is very cost effective and reduces development and manufacturing time substantially.

The PMG1 is used world wide by leading AIS manufacturers and developers. AIS (Automatic Identification System) is state of the art maritime navigational technology.

The Sine Qua Non PMG1 V2 Programmable Modulation Generator creates the required modulation waveforms as set out in IEC61993-2 and IEC 62287. It can perform the encoder requirement as set out in IEC61993-2.

The design of the Sine Qua Non PMG1 V2 unit is based on the operational success of the previous PMG1 version.

The PMG1 V2 is a conveniently sized add on for any good quality signal generator.

PMG1 V2 is field programmable and upgradeable.

The PMG1 V2 unit is identical in all operational aspects to the previous PMG1 version, and includes the following feature revisions.

### FEATURES

#### ■ SOCKETS & CONNECTORS

- ◆ Front Panel
  - BNC signal A
  - BNC signal B
  - DC on off switch
  - USB socket
  - RS232 socket
- ◆ Rear Panel
  - DC socket
  - Panel Fuse
  - DB9 1PPS interface

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### ■ OPERATIONAL COMMANDS

- ◆ FTDI COMPATIBLE driver terminal program required on suitable platform (refer to <http://www.ftdichip.com/FTDrivers.htm>)
- ◆ All operational commands are via the RS232 and/or USB terminal program
- ◆ All responses from the PMG1 can be viewed in the terminal program
- ◆ Backward compatible with API details provided with previous PMG1 version

### ■ HUMAN INTERFACE

- ◆ No Up/Down switches are provided for
- ◆ LCD not provided for
- ◆ Any suitable PC, Smart phone, Tablet, etc. can be used as Human Interface to operate the PMG1 V2, subject to meeting the Operational Commands requirements.