



PMG1D DSC Modulation Generator : Recommendation ITU - R M.493 - 16 (12 / 2023)

Modulation

M.4931300Hz1700Hz2300HzDotting

Soundcard Level

M.493 Group

Distress

Urgency and Safety

Routine Group and Individual

Auto VHF

UTC

11:23:35

An AIS Developer Studio Product

PMG1 DSC DEMO VERSION User Manual

Draft 1.0

Build 19042026.01



NOTICE

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Demonstration Program

A demonstration program is provided free of charge. AIS TEST requires that the user request the demo program and documentation and validate it for their respective use prior to placing an order for the licensed version.

Limited Warranty

Where software discrepancies or module operational bugs are identified, they should be immediately brought to the attention of AIS TEST.

The warranty is limited to the rectification of the discrepancy or bug through a software upgrade and should not exceed the original operational and technical specifications as defined by AIS TEST in the respective AIS Developer Studio App or module manual.

Objective

The objective for the use of the PMG1 DSC is to create a automated or manual interactive marine VHF environment using a PC, Signal Generator and a DSC Receiver or Transponder Subsystem.

This product should only be used for the purposes intended by its developers and only according to acceptable reference standards and operating procedures.

Any deviation from this may conflict with competent regional authorities in your area.



The AIS Developer Studio and / or interfaces should not be used to alter the operational status of any AIS/DSC unit unless authorized by a competent authority.

Under no circumstances should the AIS Developer Studio and / or interfaces be used to create any signal content outside the scope of this document using any procedure or method offered by the AIS Developer Studio interface.

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AIS TEST, formerly Sine Qua Non Technology Holdings, would like to take this opportunity to congratulate you on the purchase of one of the AIS Developer Studio suite of products.

We want to assure you that this product range is designed using over 40 years of combined radio and 24 years of AIS experience and has been thoroughly tested to ensure your complete satisfaction.

Customization

If you have any questions, queries, or customization requests related to this product, please do not hesitate to contact us by email:

Thank you,

AIS TEST

Overview

Very simply, the AIS/DSC VHF Data Link is a broadcast system, operating in the VHF maritime mobile band.

It is capable of sending ship information such as identification, position, course, speed, messages, and more, to other ships and to shore.

The PMG1 DSC does this using the M.493 document and the PC Application V23 modulation interface

M. 493-16 2023

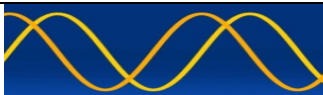
This product uses the:

Recommendation ITU-RM.493-16 (12/2023)

MSeries:Mobile, radiodetermination, amateur
and related satellite services

Digital selective-calling system for use in the maritime mobile service

As the governing input design document

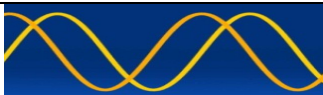


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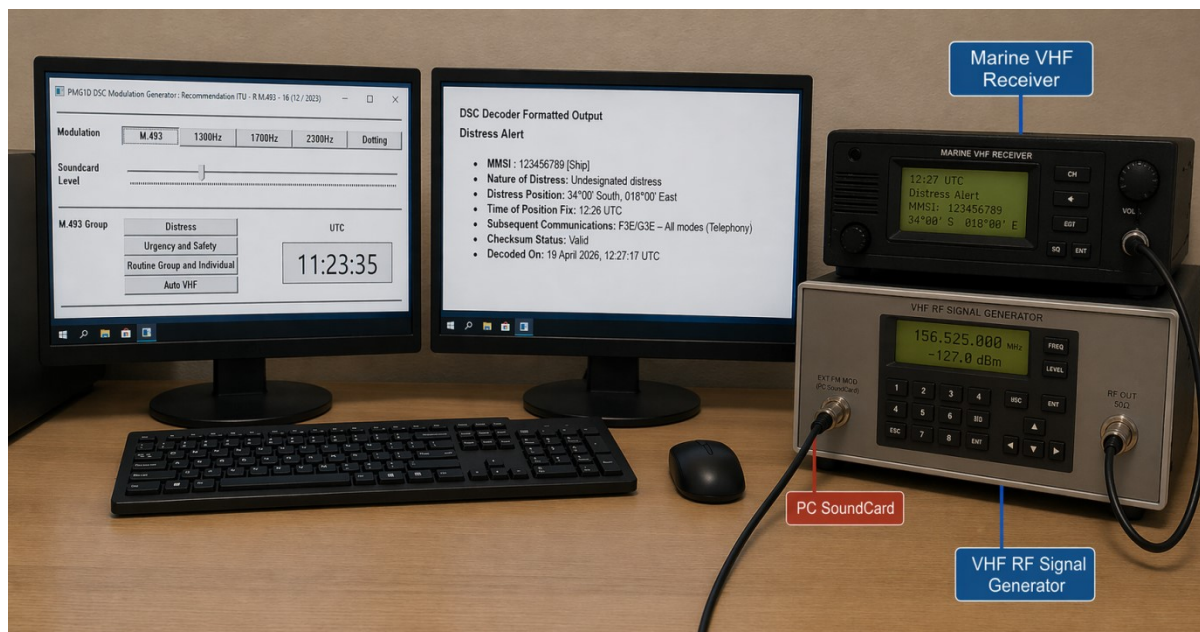
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1. PC SETUP



Setup

OS	WINDOWS
PMG1 DSC App	DSC Modulation Generator
Marine DSC Receiver	Un-branded
PC Sound Card: Earphones or LINE OUT: The App uses the SOUND MAPPER: SO whatever you have set as the sound output including SPEAKERS can be used to get used to the App.	The signal from the PMG1 App create a MONO soundcard signal: Left is same as right channel. Connect from Headphone Out OR LINE OUT to RF Signal Generator EXT FM IN. Set Modulation.
PMG1 DSC Modulation: Select: M.493 – enables M.493 menu items. 1300 Hz 1700Hz 2100 Hz Dotting Pattern	The 1700HZ can be used to set FM modulation level: using the PC VOLUME Control as well as the Sound Level Control
The Demo Unit Will always setup with the default values: If you want to change any value for your evaluation: Entering the new value on the Distress Dashboard will over-ride the default values: The values you have entered are not saved and will only last the Dialog life. So complete your evaluation before closing the Distress Dialog.	

**Step 1:**

1. Connect sound card headphone output OR Line Out to External VHF Signal Generator : EXTENAL MODULATION INPUT

PMG1D DSC Modulation Generator : Recommendation ITU - R M.493 - 16 (12 / 2023)

Modulation	M.493	1300Hz	1700Hz	2300Hz	Dotting
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Soundcard Level

M.493 Group	Distress	UTC 07:33:15
	Urgency and Safety	
	Routine Group and Individual	
	Auto VHF	

Step 2: Select 1700Hz and using Soundcard Level OR PC Volume control: Set external modulation level.

PMG1D DSC Modulation Generator : Recommendation ITU - R M.493 - 16 (12 / 2023)

Modulation	M.493	1300Hz	1700Hz	2300Hz	Dotting
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Soundcard Level

M.493 Group	Distress	UTC 07:33:24
	Urgency and Safety	
	Routine Group and Individual	
	Auto VHF	

Tone will automatically terminate after a few seconds: Select again if needed.

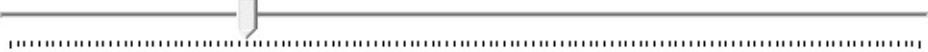


Step 3: Select M.493.

Step 4: Select Distress.

PMG1D DSC Modulation Generator : Recommendation ITU - R M.493 - 16 (12 / 2023)

Modulation	M.493	1300Hz	1700Hz	2300Hz	Dotting
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Soundcard Level 

M.493 Group	Distress	UTC 07:33:33
	Urgency and Safety	
	Routine Group and Individual	
	Auto VHF	


Step 5: Fill in message details. (Demo has factory defaults).

Step 6: Select Message Type from Tree.

Step 7 Press Call Button.

PMG1D DSC Modulation Generator : Recommendation ITU - R M.493 - 16 (12 / 2023)

Modulation	M.493	1300Hz	1700Hz	2300Hz	Dotting
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Soundcard Level 

M.493 Group	Distress	UTC 07:34:05
	Urgency and Safety	
	Routine Group and Individual	
	Auto VHF	

DSC DISTRESS CONTROL

☒ DISTRESS (M.493)

- ☒ A1-4.1 ALERT
- ☒ Distress (RT)
- ☒ A1-4.2 ACK
- ☒ A1-4.3 RELAY
- ☒ A1-4.4 RELAY ACK

Message Details

Self ID:

Distress ID:

MMSI:

Nature:

Latitude: Deg Min ☐ ☒

Longitude: Deg Min ☐ ☒

Geographic Area (Format 102)

NW Corner Lat: Deg ☐ ☒

NW Corner Lon: Deg ☐ ☒

Height (Delta) Deg (N->S)

Width (Delta) Deg (W->E)

112 112 12 34 56 78 90 100 23 40 0 18 0 7 33 100 127 6 127 127

CALL

Step 1: Fill in message details
Step 2: Select Message Type from Tree
Step 3: Press Call Button



2. M.493 : Table A1-4.1.1 : Distress RT

PMG1 DSC Section (Default Settings)

Self ID: 123456789

Distress ID: 987654321

MMSI: 135792468

Nature of Distress: Undesignated distress

Position: 34°00' South, 018°00' East

Geographic Area (Format 102):

- North-West Corner: 22° South, 016° East
- Area Size: 12° (NS) × 16° (WE)

Distress RT

112,112,SelfID[5],nature,Pos1[5],UTC[2],100,127,ECC,127,127

DSC Decoder Formatted Output

Distress Alert

- **MMSI:** 123456789 [Ship]
- **Nature of Distress:** Undesignated distress
- **Distress Position:** 34°00' South, 018°00' East
- **Time of Position Fix:** 12:26 UTC
- **Subsequent Communications:** F3E/G3E – All modes (Telephony)
- **Checksum Status:** Valid
- **Decoded On:** 19 April 2026, 12:27:17 UTC



3. M.493 : Table A1-4.2.1 – Distress Acknowledgement RT

PMG1 DSC Section (Default Settings)

Self ID: 123456789

Distress ID: 987654321

MMSI: 135792468

Nature of Distress: Undesignated distress

Position: 34°00' South, 018°00' East

Geographic Area (Format 102):

- North-West Corner: 22° South, 016° East
- Area Size: 12° (NS) × 16° (WE)

Distress Acknowledgement RT

116,116,112,SelfID[5],110,DistressID[5],nature,Pos1[5],UTC[2],100,127,ECC,127,127

DSC Decoder Formatted Output

All Ships Call

Category: Distress

- **MMSI** : 123456789 [Ship]
 - **Telecommand**: Distress Acknowledgement
 - **MMSI (Distress Station)**: 987654321 [Ship]
 - **Nature of Distress**: Undesignated distress
 - **Distress Position**: 34°00' South, 018°00' East
 - **Time of Position Fix**: 12:29 UTC
 - **Subsequent Communications**: F3E/G3E – All modes (Telephony)
 - **Checksum Status**: Valid
 - **Decoded On**: 19 April 2026, 12:29:55 UTC
-



4. M.493 : Table A1-4.2.2 : Distress Acknowledgement EPIRB

PMG1 DSC Section (Default Settings)

Self ID: 123456789

Distress ID: 987654321

MMSI: 135792468

Nature of Distress: Undesignated distress

Position: 34°00' South, 018°00' East

Geographic Area (Format 102):

- North-West Corner: 22° South, 016° East
- Area Size: 12° (NS) × 16° (WE)

EPIRB Distress Acknowledgement

116,116,112,SelfID[5],110,DistressID[5],112,Pos1[5],UTC,126,127,ECC,127,127

DSC Decoder Output (Formatted)

All Ships Call

- **Category:** Distress
- **MMSI :** 123456789 [Ship]
- **Telecommand:** Distress Acknowledgement
- **MMSI :** 987654321 [Ship]
- **Nature of Distress:** EPIRB emission
- **Distress Position:** 34°00' South, 018°00' East
- **Time of Position Fix:** 12:29 UTC
- **Subsequent Communications:** No Information
- **Checksum Status:** Valid
- **Decoded On:** 19 April 2026, 12:33:53 UTC



5. M.493 : Table A1-4.2.3 – Distress Self-Cancel

PMG1 DSC Section (Default Settings)

Self ID: 123456789

Distress ID: 987654321

MMSI: 135792468

Nature of Distress: Undesignated distress

Position: 34°00' South, 018°00' East

Geographic Area (Format 102):

- North-West Corner: 22° South, 016° East
- Area Size: 12° (NS) × 16° (WE)

Distress Self-Cancel

116,116,112,SelfID[5],110,DistressID,nature,Pos1,UTC[2],100,127,ECC,127,127

DSC Decoder Output (Formatted)

All Ships Call

- **Category:** Distress
- **MMSI :** 123456789 [Ship]
- **Telecommand:** Distress acknowledgment
- **MMSI :** 123456789 [Ship]
- **Nature of Distress:** Undesignated distress
- **Distress Position:** 34°00' South, 018°00' East
- **Time of Position Fix:** 12:46 UTC
- **Subsequent Communications:** F3E/G3E – All modes (Telephony)
- **Checksum Status:** Valid
- **Decoded On:** 19 April 2026, 12:46:43 UTC



6. M.493 : Table A1-4.3.1 : Individual RT

PMG1 DSC Section (Default Settings)

Self ID: 123456789

Distress ID: 987654321

MMSI: 135792468

Nature of Distress: Undesignated distress

Position: 34°00' South, 018°00' East

Geographic Area (Format 102):

- North-West Corner: 22° South, 016° East
- Area Size: 12° (NS) × 16° (WE)

Individual RT

120,120,mmsiID[5],112,selfID[5],112,distressID[5],nature,Pos1[5],UTC[2],100,117,E
CC,117,117

DSC Decoder Formatted Output

Selective Call – Individual Station

- **MMSI:** 135792468 [Ship]
- **Category:** Distress
- **MMSI:** 123456789 [Ship]
- **Telecommand:** Distress relay
- **MMSI:** 987654321 [Ship]
- **Nature of Distress:** Undesignated distress
- **Distress Position:** 34°00' South, 018°00' East
- **Time of Position Fix:** 13:05 UTC
- **Subsequent Communications:** F3E/G3E – All modes (Telephony)
- **Checksum Status:** Valid
- **Decoded On:** 19 April 2026, 13:05:53 UTC



7. M.493 : Table A1-4.3.2 : MOB Individual RT

PMG1 DSC Section (Default Settings)

Self ID: 123456789

Distress ID: 987654321

MMSI: 135792468

Nature of Distress: Undesignated distress

Position: 34°00' South, 018°00' East

Geographic Area (Format 102):

- North-West Corner: 22° South, 016° East
- Area Size: 12° (NS) × 16° (WE)

MOB Individual RT

120,120,mmsiID[5],112,selfID[5],112,distressID[5],110,Pos1,UTC[2],126,117,ECC,117,117

DSC Decoder Output (Formatted)

Selective Call – Individual Station

- **MMSI:** 135792468 [Ship]
- **Category:** Distress
- **MMSI:** 123456789 [Ship]
- **Telecommand:** Distress relay
- **MMSI:** 987654321 [Ship]
- **Nature of Distress:** Man overboard
- **Distress Position:** 34°00' South, 018°00' East
- **Time of Position Fix:** 13:07 UTC
- **Subsequent Communications:** No information
- **Checksum Status:** Valid
- **Decoded On:** 19 April 2026, 13:07:10 UTC



8. M.493 : Table A1-4.3.3 : Group Man Overboard Device

PMG1 DSC Section (Default Settings)

Self ID: 123456789

Distress ID: 987654321

MMSI: 135792468

Nature of Distress: Undesignated distress

Position: 34°00' South, 018°00' East

Geographic Area (Format 102):

- North-West Corner: 22° South, 016° East
- Area Size: 12° (NS) × 16° (WE)

Group Man Overboard Device

114,114,mmsiID,112,selfID,112,distressID,110,Pos1,UTC,126,127,ECC,127,127

DSC Decoder Formatted Output

Selective Call – Group of Ships

- **MMSI:** 135792468 [Ship]
- **Category:** Distress
- **MMSI:** 123456789 [Ship]
- **Telecommand:** Distress relay
- **MMSI:** 987654321 [Ship]
- **Nature of Distress:** Man overboard
- **Distress Position:** 34°00' South, 018°00' East
- **Time of Position Fix:** 13:09 UTC
- **Subsequent Communications:** No information
- **Checksum Status:** Valid
- **Decoded On:** 19 April 2026, 13:09:29 UTC



9. M.493 : Table A1-4.3.4 : Geographic Area RT

PMG1 DSC Section (Default Settings)

Self ID: 123456789

Distress ID: 987654321

MMSI: 135792468

Nature of Distress: Undesignated distress

Position: 34°00' South, 018°00' East

Geographic Area (Format 102):

- North-West Corner: 22° South, 016° East
- Area Size: 12° (NS) × 16° (WE)

Geographic Area RT

102,102,Area[5],112,slfID[5],112,distID,nature,Pos1,UTC[2],100,127,ECC,127,127

DSC Decoder Formatted Output

Selective Call – Group of Ships in Geographic Area

- **Zone Definition:** 22° South / 016° East
 - Area Extent: 12° (North–South) × 16° (East–West)
- **Category:** Distress
- **MMSI:** 123456789 [Ship]
- **Telecommand:** Distress relay
- **MMSI:** 987654321 [Ship]
- **Nature of Distress:** Undesignated distress
- **Distress Position:** 34°00' South, 018°00' East
- **Time of Position Fix:** 13:11 UTC
- **Subsequent Communications:** F3E/G3E – All modes (Telephony)
- **Checksum Status:** Valid
- **Decoded On:** 19 April 2026, 13:11:30 UTC



10. M.493 : Table A1-4.3.5 : All Ships RT

PMG1 DSC Section (Default Settings)

Self ID: 123456789

Distress ID: 987654321

MMSI: 135792468

Nature of Distress: Undesignated distress

Position: 34°00' South, 018°00' East

Geographic Area (Format 102):

- North-West Corner: 22° South, 016° East
- Area Size: 12° (NS) × 16° (WE)

All Ships RT

116,n/a,112,selfID[5],112,distID[5],nature,Pos1[5],UTC[2],100,127,ECC,127,127

DSC Decoder Formatted Output

All Ships Call

- **Category:** Distress
- **MMSI:** 123456789 [Ship]
- **Telecommand:** Distress relay
- **MMSI:** 987654321 [Ship]
- **Nature of Distress:** Undesignated distress
- **Distress Position:** 34°00' South, 018°00' East
- **Time of Position Fix:** 13:13 UTC
- **Subsequent Communications:** F3E/G3E – All modes (Telephony)
- **Checksum Status:** Valid
- **Decoded On:** 19 April 2026, 13:14:02 UTC



11. M.493 : Table A1-4.4.1 : Individual RT

PMG1 DSC Section (Default Settings)

Self ID: 123456789

Distress ID: 987654321

MMSI: 135792468

Nature of Distress: Undesignated distress

Position: 34°00' South, 018°00' East

Geographic Area (Format 102):

- North-West Corner: 22° South, 016° East
- Area Size: 12° (NS) × 16° (WE)

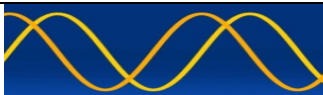
Individual RT

120,120,mmsiID[5],112,selfID[5],112,DistID[5],nature,Pos1[5],UTC[2],100,122,ECC,122,122

DSC Decoder Formatted Output

Selective Call – Individual Station

- **MMSI:** 135792468 [Ship]
- **Category:** Distress
- **MMSI:** 123456789 [Ship]
- **Telecommand:** Distress relay
- **MMSI:** 987654321 [Ship]
- **Nature of Distress:** Undesignated distress
- **Distress Position:** 34°00' South, 018°00' East
- **Time of Position Fix:** 13:15 UTC
- **Subsequent Communications:** F3E/G3E – All modes (Telephony)
- **Checksum Status:** Valid
- **Decoded On:** 19 April 2026, 13:15:30 UTC



12. M.493 : Table A1-4.4.2 : Group MOB

PMG1 DSC Section (Default Settings)

Self ID: 123456789

Distress ID: 987654321

MMSI: 135792468

Nature of Distress: Undesignated distress

Position: 34°00' South, 018°00' East

Geographic Area (Format 102):

- North-West Corner: 22° South, 016° East
- Area Size: 12° (NS) × 16° (WE)

Group MOB

114,114,mmsiID[5],112,selfID[5],112,distID[5],110,Pos1[5],UTC[2],126,122,ECC,122,122

DSC Decoder Formatted Output

Selective Call – Group of Ships

- **MMSI:** 135792468 [Ship]
- **Category:** Distress
- **MMSI:** 123456789 [Ship]
- **Telecommand:** Distress relay
- **MMSI:** 987654321 [Ship]
- **Nature of Distress:** Man overboard
- **Distress Position:** 34°00' South, 018°00' East
- **Time of Position Fix:** 13:17 UTC
- **Subsequent Communications:** No information
- **Checksum Status:** Valid
- **Decoded On:** 19 April 2026, 13:17:46 UTC



13. M.493 : Table A1-4.4.3 : Individual MOB

PMG1 DSC Section (Default Settings)

Self ID: 123456789

Distress ID: 987654321

MMSI: 135792468

Nature of Distress: Undesignated distress

Position: 34°00' South, 018°00' East

Geographic Area (Format 102):

- North-West Corner: 22° South, 016° East
- Area Size: 12° (NS) × 16° (WE)

Individual MOB

120,120,mmsiID[5],112,selfID[5],112,distID[5],110,Pos1[5],UTC[2],126,122,ECC,122,122

DSC Decoder Formatted Output

Selective Call – Individual Station

- **Called MMSI Station Address:** 135792468 [Ship]
- **Category:** Distress
- **MMSI (Calling Station):** 123456789 [Ship]
- **Telecommand:** Distress relay
- **MMSI (Referenced Distress ID):** 987654321 [Ship]
- **Nature of Distress:** Man overboard
- **Distress Position:** 34°00' South, 018°00' East
- **Time of Position Fix:** 13:20 UTC
- **Subsequent Communications:** No information
- **Checksum Status:** Valid
- **Decoded On:** 19 April 2026, 13:20:24 UTC



14. M.493 : Table A1-4.4.4 : All Ships RT

PMG1 DSC Section (Default Settings)

Self ID: 123456789

Distress ID: 987654321

MMSI: 135792468

Nature of Distress: Undesignated distress

Position: 34°00' South, 018°00' East

Geographic Area (Format 102):

- North-West Corner: 22° South, 016° East
- Area Size: 12° (NS) × 16° (WE)

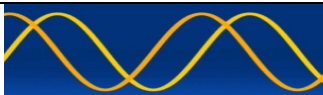
All Ships Call RT

116,116,n/a,112,selfID[5],112,distID[5],nature,Pos1[5],UTC[2],100,122,ECC,122,122

DSC Decoder Formatted Output

All Ships Call

- **Category:** Distress
- **MMSI:** 123456789 [Ship]
- **Telecommand:** Distress relay
- **MMSI:** 987654321 [Ship]
- **Nature of Distress:** Undesignated distress
- **Distress Position:** 34°00' South, 018°00' East
- **Time of Position Fix:** 13:21 UTC
- **Subsequent Communications:** F3E/G3E – All modes (Telephony)
- **Checksum Status:** Valid
- **Decoded On:** 19 April 2026, 13:22:00 UTC



15. Reference Documents

List of standards and specifications

Document Number	Title
IEC 61162-1	Maritime Navigation and Radio Communication Equipment and Systems - Digital Interfaces: Part 1 - Single Talker and Multiple Listeners.
IEC 61162-2	Maritime Navigation and Radio Communication Equipment and Systems - Digital Interfaces: Part 2 - Single Talker and Multiple Listeners High Speed Transmission.
IEC61162-100-80_330E_PAS	This document provides information on the necessary interface standards for use with the UAIS, which are not available in the current issue of IEC 61162-1 Ed 2. The information in this PAS supersedes that in annex B (informative) of IEC 61993-2, the Standard for UAIS
Recommendation ITU-RM.493-16 (12/2023)	MSeries:Mobile, radiodetermination, amateur and related satellite services Digital selective-calling system for use in the maritime mobile service

List of Related Software and Manuals

Module	Description	Part number
PMG1 DSC Modulation Generator Software for Windows. Verified on WIN10	Demonstration Version	



Postal Address:

28 Mustang Ave
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Centurion
Gauteng
South Africa

Email:

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info@sinequanonth.co.za

Website:

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