# **Application Note**

ANSS25041201 – NMEAremote Apple Watch Configuration



Chetco Digital Instruments, Inc

Revision 041225



SeaGaugeG4 supports up to 12 resistive or voltage style analog sensor inputs and 3 pulse style inputs.

SeaGaugeG4 also provides 4 additional indicator/status inputs (18VDC max) and 4 relay driver (12VDC) outputs

Sensors are connected to the dual 20 pin Molex style connectors and analog voltages converted to digital protocol compatible with CAN bus and WIFI interfaces.

SeaGaugeG4 can trigger multiple alarms based on sensor voltages from any of the 12 analog inputs and 3 pulse inputs





SeaGaugeG4 supports up to 3 pulse sensor inputs via a 20 pin Molex MX150 plug (white).

Molex style crimp pins are provided to attach 18 gauge tinned wire and insert into appropriate locations in supplied plugs.

The 3 pulse inputs (P0-P2) are used to provide Tachometer, Fluid Flow, and other rotational sensor inputs.

Each pulse channel has a runtime accumulator that counts the number of seconds the channel is active up to 16,777,216 seconds

#### SeaGaugeG4 Header



| B1 - NC             | B11 - NC            | A1 - SW5       | A11 – SW4   |
|---------------------|---------------------|----------------|-------------|
| B2 - NC             | B12 - NC            | A2 - SW7       | A12 – SW6   |
| B3 – SEN10 (SBOOST) | B13 – SEN11 (STRAN) | A3 - NC        | A13 - NC    |
| B4 – SENO4 (STEMP)  | B14 – SEN05 (SOIL)  | A4 – P1 (SRPM) | A14 - GND   |
| B5 – SENO6 (SFUEL)  | B15 – SEN07 (SBAT)  | A5 – P0 (PRPM) | A15 - GND   |
| B6 – SENOO (PBAT)   | B16 – SEN01 (PFUEL) | A6 – P2        | A16 - GND   |
| B7 – SENO2 (PTEMP)  | B17 – SEN03 (POIL)  | A7 – 5VOUT     | A17 – 5VOUT |
| B8 – SEN08 (PBOOST) | B18 – SEN09 (PTRAN) | A8 - GND       | A18 - GND   |
| B9 – INC03          | B19 – INC02         | A9 – 12VIN     | A19 = 12VIN |
| B10 – INC01         | B20 – INC00         | A10 - NC       | A20 - NC    |



SeaGaugeG4 and SeaSmartG3 gateways feature an internal HTTP and TCP data server for sending live sensor data to third party applications over local and remote network connections.

NMEAremote is an iOS application developed by zapfware (<u>https://www.zapfware.de</u>) and is available on the Apple AppStore.

NMEAremote will allow custom configuration of a variety of dashboads based on NMEA0183 and NMEA2000 messages served by the gateway TCP/UDP connections.





The NMEAremote iPhone app allows pairing and configuration with Apple Watch for display of live dashboards loaded by the iPhone via Bluetooth connection.

Once configured, various display pages can be viewed by swipe gestures.



The Apple watch can be configured to operate tethered to iPhone or as standalone using local WIFI or cellular connections.

When tethered to iPhone, Apple Watch will share current NMEAremote connections using Bluetooth

In standalone mode, the Apple watch will connect directly to SeaGaugeG4 over local WIFI network or to the HelmSmart Cloud service using available WIFI or cellular services.

All Apple Watch configurations are performed from the NMEAremote app on the iPhone then transferred to the watch via Bluetooth.

Refer to App Note <u>AN SS25030301 NMEARemote iOS Configuration.pdf</u> for details on how to configure NMEAremote



When using a tethered connection to iPhone, the Apple Watch will share the current NMEAremote connection.

Verify that the iPhone NMEAremote has an active connection and is receiving live data.

In this example NMEAremote is connected directly to SeaGaugeG4 via a local network using the TCP protocol. SeaGaugeG4 is configured to output live data using the PushSmart protocol via TCP port 10010.

| 9:47 🔉    |         | ∻ ■  | 9:48   | in A  | \$   |
|-----------|---------|------|--|---|--|
| < NMEA    | Sources | Edit | <b>〈</b> Back  | SeaGaugeG4-43B4   | ^  |
|           |         |      |  |   |  |
| HelmSmart | Remote  | >    | Name   | SeaGaugeG   | 4-43B4   |
| SeaGaugeG | 94-43B4 | >    | Enabled  | k   |  |
|           |         |      | State  | Red   | ceiving.   |
|           |         |      | \$PCDIN<br>\$PCDIN<br>PGN06<br>PGN06<br>PGN120<br>PGN121 | N,01F113,EBO3A510,80,00<br>N,01F802,EBO3A511,7F,00<br>5286 99 E1 00 FF FC<br>5292 99 E1 00 03 00 (<br>6992 00 09 DD 4E 50<br>7250 00 C6 46 FF 7F FF 7 | 0FB3800<br>0FCFFFF<br>00 00 01<br>00 00 0<br>0CF 20 2<br>7F FD |
|           |         |      | Validate   | 9   | $\bigcirc$   |
|           |         |      | Rules  |   |  |
|           |         |      | NMEA   |   |  |
|           |         |      | Talker II  | D   |  |
|           |         |      | CONNEC   | TION  |  |
|           |         | ſĴ)  | Protoco  | bl  | TCF  |
|           |         | -    | Host   | /IP - seagaugeg4 43   | b4.loca  |

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Go to the NMEAremote settings on the iPhone and select the **Wearables** link. The iPhone Bluetooth must be enable and the Apple Watch previously paired using the Apple Watch app

Select the target Apple Watch in the Wearables screen



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Select the **Connection** link and be sure the connection **Type** is set to **iPhone**.

There are two connection types – iPhone and HTTPClient

**iPhone** is a shared connection between both devices and **HTTPClient** allows the Apple watch to connect directly to a target server without the iPhone once the configuration is transferred and stored on the watch

A shared connection will mirror data on both devices and provides a more reliable service as the iPhone will have stronger WIFI and Cellular access

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|------------|-----------|------------------|
| < Back     | Joe's G10 | 0 iWatch         |
|            |           |                  |
| Name       |           | Joe's G10 iWatch |
| Enabled    |           |                  |
| State      |           | Not Connected    |
|            |           |                  |
| Battery Le | evel      |                  |
| watchOS    |           | 11.3.1           |
|            |           |                  |
| Connecti   | on        | >                |
|            |           |                  |
| Reset Da   | shboard   |                  |
|            |           |                  |
|            |           |                  |
|            |           |                  |
|            |           |                  |
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If iPhone is not he current **TYPE**, select **EDIT** and tap **TYPE** and then at bottom, scroll to iPhone and **SAVE** 





ANSS25041201 Configure NMEAremote Apple Watch

Be sure the watch connection is **ENABLED**.

The **STATE** will show **NOT CONNECTED** until you start the NMEAremote app on the watch. When the watch app is started you should see state change to **CONNECTED** and the **BATTERY LEVEL** will show current charge.

| 9:54 🔉        | al 🗢 🔲           | 9:56 🔉                     |                  |
|---------------|------------------|----------------------------|------------------|
| K Back Joe    | 's G10 iWatch    | <b>〈</b> Back <b>Joe's</b> | G10 iWatch       |
|               |                  |                            |                  |
| Name          | Joe's G10 iWatch | Name                       | Joe's G10 iWatch |
| Enabled       |                  | Enabled                    |                  |
| State         | Not Connected    | State                      | Connected        |
|               |                  |                            |                  |
| Battery Level |                  | Battery Level              | 100 %            |
| watchOS       | 11.3.1           | watchOS                    | 11.3.1           |
|               |                  |                            |                  |
| Connection    | >                | Connection                 | >                |
|               |                  |                            |                  |
| Reset Dashboa | ard              | Reset Dashboard            | k                |
|               |                  |                            |                  |
|               |                  |                            |                  |
|               |                  |                            |                  |
|               |                  |                            |                  |
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ANSS25041201 Configure NMEAremote Apple Watch

Once you start the watch app, you should see live data on both the watch and the iPhone



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The Apple Watch can directly connect via WIFI or Cellular to a target device's HTTPS or HTTP server after first being configured from the iPhone app.

HTTPS/HTTP servers provide live data in response to Apple Watch GET request

Example: http://SeaGaugeG4-1234.local/ watch?id=Battery.0.Voltage,Engine.0.RPM,Engine.0.EngineTemperature, Environment.airTemperature

Start from the NMEAremote settings tab and select Wearables then EDIT

| ç                  | 9:47 🔊     | <b>'II</b> |
|--------------------|------------|------------|
| ⊗                  | nmearemot  | te         |
| 0                  | Alarms     |            |
| 20                 |            |            |
| Ø                  | Navigation | >          |
| $\oplus$           | Polar      | >          |
|                    |            |            |
| 3:                 | NMEA       | >          |
| **                 | Modules    | >          |
| $(\mathbf{i})$     | Dashboard  | >          |
|                    |            |            |
| *                  | Wearables  | >          |
|                    |            |            |
| $\bigtriangledown$ | Units      | >          |
| $\otimes$          | Common     | >          |
|                    |            |            |
| (j                 | About      | >          |
|                    |            |            |
| <b>(</b> )         | About      | >          |

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Select the **Connection** link then **Edit** under **Type** and then choose the **HTTPClient** option

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|---------------|------------------|--------------|----------------------|------------|
| <b>〈</b> Back | Joe's G10 iWatch | Cancel       | Connection           | Done       |
|               |                  |              |                      |            |
| Name          | Joe's G10 iWatch | JOE'S G10 IN | WATCH                |            |
| Enabled       |                  | Туре         |                      | HTTPClient |
| State         | Not Connected    | 'Watch App'  | connects to this iPł | none.      |
| Battery L     | evel             |              |                      |            |
| watchOS       | 11.3.1           |              |                      |            |
| Connecti      | on >             |              |                      |            |
| Reset Da      | shboard          |              |                      |            |
|               |                  | Cancel       | Туре                 | Save       |
|               |                  |              |                      |            |
|               |                  |              | iPhone               |            |
|               |                  |              | HTTPClient           |            |
|               |                  |              |                      | -          |



For a direct connection to SeaGaugeG4 analog gateway, use the **HTTP** protocol.

Enter the SeaGaggeG4 host name on the local network and set port to 80. Be sure the Path is set to /watch. In some cases entering the direct IP address of the SeaGaugeG4 will result in quicker updates as the Watch does not need to perform DNS lookup.

Finally, set the desired update interval and select **DONE** at the top

| 10:38 🔌  |  | ''I 🕹 🔳                              |      |
|--|--|--------------------------------------|------|
| <b>〈</b> Back  | Connection*  | E                                    | Edit |
| JOE'S GIO IWA  | асн  |                                      |      |
| Туре   |  | HTTPClie                             | ent  |
| 'Watch App' cc<br>API service.<br>In this setup th<br>independently<br>'Companion Ap | onnects via HTTP t<br>e 'Watch App' is a<br>of a connected iPf<br>op'. | o a REST-<br>ble run<br>none or this | 5    |
| Protocol   |  | ht                                   | tp   |
| Host / IP  | seagaugeg4   | -43b4.loo                            | cal  |
| Port   |  | 1                                    | 80   |
| Path   |  | /watch                               | n >  |
| Query  |  |                                      | >    |
| НТТР   |  |                                      |      |
| Update Inter   | val  |                                      | 1 s  |
| Last Update  | 06.04.202  | 5 09:31:                             | 54   |
| Refresh  |  |                                      |      |



Go back to the Wearables page and toggle the Enabled button

Then start the NMEAremote app on the watch and the two devices will sync and the iPhone will automatically send the new configuration to the Apple Watch.

Once completed, the watch should start showing live data directly from SeaGaugeG4 over the local network. To be sure the watch is independent of the iPhone – disable the iPhone's Bluetooth to verify the watch still updates.

| 12:35 🔊         | ul ? 💋           |
|-----------------|------------------|
| K Back Joe's G1 | 10 iWatch        |
|                 |                  |
| Name            | Joe's G10 iWatch |
| Enabled         |                  |
| State           | Connected        |
|                 |                  |
| Battery Level   | 95 %             |
| watchOS         | 11.3.1           |
|                 |                  |
| Connection      | >                |
|                 |                  |
| Reset Dashboard |                  |
|                 |                  |
|                 |                  |
|                 |                  |
|                 |                  |
|                 |                  |
|                 |                  |



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When the watch is actively updating, you will see a blinking dot in the lower right corner.

The NMEAremote display will automatically stop updating when the watch WAKE interval is exceeded (default is 15 seconds) at which point the display will dim and no updates will occur.

Use the iPhone Apple Watch configuration app to extend the wake timeout to 70 seconds and to also change the default Return to Clock to 1 hour to avoid the watch from automatically quitting the app while in use.





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The Apple Watch NMEAremote app can communicate directly with the <u>https://www.helmsmart-remote.com</u> cloud service to display live data over any internet connection without needing a tether to the iPhone. For Apple Watch with built-in cellular capabilities, direct to cloud updates are supported.

Configured SeaGaugeG4 and SeaSmartG3 gateways can forward data to the HelmSmart Cloud service and the NNMEAremote app can then connect via the https url to retrieve device data using a registered device api key.

It is also possible to link multiple devices at different locations using a registered master device api key and pre-registered device ids.

To set up the Apple Watch for direct to cloud communication you must first use the NMEAremote iPhone app to configure the connections

Go to the NMEAremote Settings and select Wearables and then Edit under Apple Watch





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## Select the Connection link then change the Type to HTTPClient

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|--------------------------|------------------|--------------|-----------------------|------------|
| <b>〈</b> Back <b>Joe</b> | 's G10 iWatch    | Cancel       | Connection            | Done       |
|                          |                  |              |                       |            |
| Name                     | Joe's G10 iWatch | JOE'S G10 IV | VATCH                 |            |
| Enabled                  |                  | Туре         |                       | HTTPClient |
| State                    | Not Connected    | 'Watch App'  | connects to this iPho | one.       |
|                          |                  |              |                       |            |
| Battery Level            |                  |              |                       |            |
| watchOS                  | 11.3.1           |              |                       |            |
|                          |                  |              |                       |            |
| Connection               | >                |              |                       |            |
|                          |                  |              |                       |            |
| Reset Dashboa            | ard              |              |                       |            |
|                          |                  | Cancel       | Туре                  | Save       |
|                          |                  |              |                       |            |
|                          |                  |              | iPhone                |            |
|                          |                  |              | HTTPClient            |            |
|                          |                  |              |                       |            |



Select **Edit** in the upper right corner and then change the protocol to **https**.

| 9:51 🌶   |                 | ull 🔶 🔲    |   | 9:52 🔊              |
|--|-----------------|------------|---|---------------------|
| Cancel   | Connection      | Done       | Canc  | el                  |
| JOE'S G10 IV   | VATCH           |            | JOE'S G10   | IW                  |
| Туре   | H               | ITTPClient | Туре  |                     |
| 'Watch App' connects via HTTP to a REST-<br>API service.<br>In this setup the 'Watch App' is able run<br>independently of a connected iPhone or this<br>'Companion App'. |                 |            | 'Watch App'<br>API service.<br>In this setup<br>independent<br>'Companion | c<br>tl<br>tly<br>A |
| Protocol   |                 | http       | CONNECTIO   | 7                   |
| Host / IP  | 192.1           | 68.254.35  | Protocol  |                     |
| Port   |                 | 80         | Host / IP   |                     |
| Path   |                 | /watch >   | Port  |                     |
| Query dev  | icekey=74d45093 | 3bfb70 >   | Path  |                     |
| НТТР   |                 |            | Cancel  |                     |
| Update Inte  | erval           | 1 s        |   |                     |
| Last Updat   | te 06.04.2025   | 5 09:31:54 |   |                     |
| Refresh  | ·               |            |   |                     |
|  |                 |            |   |                     |



#### Change the Host/IP to www.helmsmart-remote.com.

Port to 443 and Path to /watch

Next enter the registered **devicekey** obtained from the HelmSmart Cloud Service in the Query section – example: devicekey=35d45096bfb7075623f6bccf8795c156



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Enter the desired **Update Interval** and then **Done** at the top when completed..

| 9:55 🔌   |                |              |
|--|----------------|--------------|
| Cancel   | Connection*    | Done         |
| JOE'S G10 IV   | VATCH          |              |
| Туре   |                | HTTPClient   |
| 'Watch App' connects via HTTP to a REST-<br>API service.<br>In this setup the 'Watch App' is able run<br>independently of a connected iPhone or this<br>'Companion App'. |                |              |
| CONNECTIO  | Ν              |              |
| Protocol   |                | https        |
| Host / IP v  | www.helmsmart- | remote.com   |
| Port   |                | 443          |
| Path   |                | /watch >     |
| Query dev  | icekey=74d450  | 93bfb70 >    |
| НТТР   |                |              |
| Update Inte  | erval          | 10 s         |
|  |                | 00.21.54     |
|  | ue 06.04.202   | 25 09.3 1.54 |
| Refresh  |                | •            |



### Return to the Watch Settings - it will show State as Not Connected

Go to the Apple Watch and start the NMEAremote App

The State should change to Connected and also show the current Battery Level

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|-----------------------------|------------------|-----------------------------|------------------|
| <b>〈</b> Back <b>Joe</b> 's | s G10 iWatch     | <b>〈</b> Back <b>Joe</b> 's | G10 iWatch       |
|                             |                  |                             |                  |
| Name                        | Joe's G10 iWatch | Name                        | Joe's G10 iWatch |
| Enabled                     |                  | Enabled                     |                  |
| State                       | Not Connected    | State                       | Connected        |
|                             |                  |                             |                  |
| Battery Level               |                  | Battery Level               | 95 %             |
| watchOS                     | 11.3.1           | watchOS                     | 11.3.1           |
|                             |                  |                             |                  |
| Connection                  | >                | Connection                  | >                |
|                             |                  |                             |                  |
| Reset Dashboar              | rd               | Reset Dashboar              | d                |
|                             |                  |                             |                  |
|                             |                  |                             |                  |
|                             |                  |                             |                  |
|                             |                  |                             |                  |
|                             |                  |                             |                  |
| _                           |                  |                             |                  |



After 10-15 seconds the watch should start updating from the HelmSmart Cloud Service



If the app doesn't start updating - you may need to close the app on the watch and restart so it can sync with the iPhone.

Once updates start to arrive, the iPhone tether is no longer needed.



The Dashboard layouts on the Apple Watch can be customized to fit the desired use case.

Dashboard layouts are contained in custom .json files which can downloaded to the iPhone from the <u>www.helsmart-remorte.com</u> web site.

| Helmsmart-Remote Apple Wat: × +   |  | - 🗆 X                            |  |  |  |  |
|---|--|----------------------------------|--|--|--|--|
| ← → C 😁 helmsmart-remote.com/watch_configs.html   |  | 🖈 😏 E                            |  |  |  |  |
| HelmSmart-Remote<br>realtime RESTful data server  |  |                                  |  |  |  |  |
| Apple Watch   | Configuration files used with NMEAremote |                                  |  |  |  |  |
| pov   | vered by HelmSmart data services         | -                                |  |  |  |  |
| Dashboard   | Connection Type*                         | Configuration file               |  |  |  |  |
| Weather Conditions - 3 zones - Temp & Baro & TWS & TWD  | https.(cloud).HelmSmart                  | Dashboard-Config-DI7.Watch.json  |  |  |  |  |
| Engine Status -SeaGauge - 1 zone - RPM & Temp & Oil & Fuel &<br>EGT & TRAN & BAT & GPS  | iPhone_(local)_SeaGaugeG4_TCP            | Dashboard-Config-DI13.Watch.json |  |  |  |  |
| Engine Status -SeaGauge - 1 zone - RPM & Temp & Oil & Fuel & EGT & TRAN & BAT & GPS   | iPhone (cloud) HelmSmart                 | Dashboard-Config-DI13.Watch.json |  |  |  |  |
| Engine Status -SeaGauge - 1 zone - RPM & Temp & Oil & Fuel & EGT & TRAN & BAT & GPS   | http (local) SeaGaugeG4 HTTP             | Dashboard-Config-DI13.Watch.json |  |  |  |  |
| Engine Status -SeaGauge - 1 zone - RPM & Temp & Oil & Fuel &<br>EGT & TRAN & BAT & GPS  | https.(cloud) HelmSmart                  | Dashboard-Config-DI13.Watch.json |  |  |  |  |
|   |  |                                  |  |  |  |  |
| *when connecting via iPhone use <a href="http://www.helmsmart-remote.com/pushsmart">http://www.helmsmart-remote.com/pushsmart</a> port 80   |  |                                  |  |  |  |  |
| *when connecting directly via doud services use https://www.helmsmart.remote.com/watch port 443   |  |                                  |  |  |  |  |
| when connecting arresty on local network to an <u>etwork contactory por so</u><br>Chetco Digital - <u>www.chetcodigital.com</u><br><u>www.digitalmarinegauges.com</u><br>copyright 2025 |  |                                  |  |  |  |  |

These files are then synced to the Apple Watch upon the next app relaunch

The above links provide some typical use case dashboards for view of vessel/engine/weather data.

Please contact Chetco Digital if you require any other customized dashboards



Start dashboard updates by launching a web browser in iPhone and go to <u>https://www.helmsmart-remote.com/watch\_configs.html</u>.

Google Chrome works best as it allows download of the target .json config file into the iPhone's Files app

Select the desired dashboard link to download the file to the iPhone

| 10:29 🔉  | atl  | <b>?</b>                                 | 10:30 🔌   | ul 🗢 🗩                                   |
|--|--|--|---|--|
| . helmsmart  | -remote.com  | Û  | e helmsmart-ren   | mote.com 🖞                               |
| HeimSm<br>realtime RE<br>Provides realtime access to <u>Sea</u><br>Apple Watch Configurati<br>powered by <u>Hel</u>  | art-Remote<br>STful data server<br><u>SmartG3</u> and <u>SeaGaugeG4</u><br>on files used with NMEAremote<br><u>mSmart</u> data services                              | gateways                                 | <pre>{     "ID": "WATCH",     "categories": [     {         "ID": "Weather SD",         "index": 0,         "dashboards": [</pre> |  |
| Dashboard  | Connection Type*   | Configuration                            | {<br>"grid-layout": "{  | 12,24}",                                 |
| Weather Conditions - 3 zones - Temp & Baro & TWS<br>& TWD  | https.(cloud) HelmSmart  | Dashboard-<br>Config:<br>D17.Watch.json  | "ID": "Watch.Page<br>"index": 0,<br>"items": [  | .0.Gauge.0",                             |
| Engine Status -SeaGauge - 1 zone - RPM & Temp &<br>Oli & Fuel & EGT & TRAN & BAT & GPS   | Phone (local) SeaGaugeG4 TCP   | Dashboard-<br>Config-                    | {   | "Class".                                 |
| Engine Status -SeaGauge - 1 zone - RPM & Temp &<br>Oil & Fuel & EGT & TRAN & BAT & GPS   | IPhone (cloud) HeimSmart   | Dashboard-<br>Config-<br>D113.Watch.json | "AKPropertyView",   | "title": "AIR                            |
| Engine Status -SeaGauge - 1 zone - RPM & Temp &<br>Oil & Fuel & EGT & TRAN & BAT & GPS   | http.(local).SeaGaugeG4.HTTP   | Dashboard-<br>Config-                    | TEMP SD ,   | "valueView": {                           |
| Engine Status -SeaGauge - 1 zone - RPM & Temp &<br>Oll & Fuel & EGT & TRAN & BAT & GPS   | httos (cloud) HeimSmart  | Dashboard-<br>Config-<br>D113.Watch.json | "AKNumberValueView",<br>"Environment.airTemperature   | "valueKey":                              |
| *when connecting via iPhone use <u>http://www.helm</u><br>*when connecting directly via cloud services use <u>b</u><br>*when connecting directly on local network use <u>htt</u><br>Chetco Digital - <u>3</u><br><u>www.digitaln</u><br>copy | amart-remde.com/aublamart por 8<br>ttss://www.helmsmart-remde.com/<br>or//SeaGauget64_xxxx.local port 80<br>www.chetcodigital.com<br>narrinegauges.com<br>right 2025 | i0 watch port 443                        | <pre>} } , "grid-layout": "{ "ID": "Watch.Page "index": 1, "items": [</pre>   | "layout" : 2<br>12,24}",<br>.0.Gauge.1", |
|  |  |  | "AVDroportuviou"  | "Class":                                 |
|  |  |  | antiopercyview ,  | "title": "BARO                           |
|  |  |  | 50,   | "valueView": {                           |
|  |  |  | Dashboard-Config-DI<br>(8 KB)<br>DOWNLOAD   | 13.Watch.json                            |
| $\leftarrow \rightarrow$   | + 15   | •••                                      | $\leftarrow \rightarrow +$  | 15 •••                                   |

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Once the down load is complete, select the **OPEN IN...** link and then select the iPhone's **NMEAremote** app

NMEAremote will then transfer the new dashboard config.json file to the attached Apple Watch the next time it is launched.

| 10:31 🔉  | ''II 🕹 🔲  | 10:32 🔌  | .11 ? 🗩  |
|--|---|--|--|
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| <pre>{     "ID": "WATCH",     "categories": [         {             "ID": "Weather SD",             "index": 0,             "dashboards": [                 {                 "grid-layout": "{12,                 "ID": "Watch.Page.0.                 "index": 0,                 "items": [                 {                 "AKPropertyView",                 TEMP SD",                 "AKNumberValueView",                 "Environment.airTemperature"</pre> | <pre>24}",<br/>Sauge.0",<br/>"Class":<br/>"title": "AIR<br/>"valueView": {<br/>"Class":<br/>"valueKey":<br/>},<br/>"layout" : 2<br/>24}",<br/>Sauge.1",</pre> | <pre>{     "ID": "WATCH",     "categories": [         {             "ID": "Weather :             "index": 0,             "dashboards": [</pre> | GD",<br>t": "{12,24}",<br>h.Page.0.Gauge.0",<br>"Class":<br>"title": "AIR<br>"valueView": {<br>"Class":<br>Donfig- |
| <pre>{     "AKPropertyView",     SD",     "characterCount": 4,     "AKNumberValueView",     Download complete     DashboardWatch.json     ←</pre>  | "Class":<br>"title": "BARO<br>"valueView": {<br>"Class":<br>OPEN IN X   | AirDrop NMEAre-<br>mote  | Messages Mail  |
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Once the new dashboard layout is copied to the Apple Watch, the iPhone will no longer need to be connected.







There are some Apple Watch Settings that can be altered to optimize performance with NMEAremote – **Display Wake** and **Return to Clock** 

In the Apple Watch app on the iPhone - select the **Display & Brightness** link and then go to **Wake Duration** 







Change the Duration to 70 seconds to prevent the watch from stopping live updates unless you retap the face every 15 seconds.

Then return to the General tab to alter the Return to Clock setting for NMEA remote





You can now set a custom value to use with NMEAremote to allow the app to remain active for up to 1 hour unless you press the watch crown button

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|----------------|------------------------|----------|---|
| <b>&lt;</b> Ge | eneral Return to Clock |          |   |
| 83             | Mindfulness            |          | > |
|                | Music                  |          | > |
| 6              | Music Recognition      |          | > |
| <b>(</b>       | MyRadar                |          | > |
| 8              | News                   |          | > |
| <b>B</b> O     | NMEAremote             | Custom   | > |
| •              | NOHRD                  |          | > |
| 0              | Noise                  |          | > |
|                | Now Playing            |          | > |
| ۲              | Pandora                |          | > |
| 0              | Phone                  |          | > |
| ۲              | Photos                 |          | > |
| P              | Podcasts               |          | > |
| Му             | Watch Face Gallery     | Discover |   |

