WorkForce®1
Model WF1
User's Information



WorkForce® model WF1 is a worker-worn motion-sensing Man-Down Alarm that uses independent, high performance RF (radio-frequency) wireless signaling to help protect workers in dangerous and hazardous environments.

WorkForce® provides real-time **motion-sensing,** including **fall-detection**, and contains an Emergency Alarm Button to immediately transmit a distress alarm signal.

WorkForce® Alarm Monitoring (AM) version also receives distress alarm signals from other workers equipped with WorkForce® and alerts the user with audible and visual indicators. Other emergency signaling features of WorkForce® include Evacuate, PAR, Roll-Call and optional Out-of-Range indication.

A complete worker safety system can be achieved by using additional Grace monitoring products with locating capabilities.



Definition of Terms

Alarm Inhibit Timer: When WorkForce® receives an alarm message from another GRACE Industries device and that alarm is cleared, the Alarm Inhibit Timer provides a 30 second period of time where the WorkForce® will not receive another alarm message from that same device.

Alarm Message: When the Emergency Alarm Button is pressed, a radio transmitted signal is sent from the WorkForce® to notify monitoring personnel that an emergency situation is present and rescue action is requested.

Alarm Mode: A WorkForce® is placed in Alarm Mode by pressing the device's Emergency Alarm Button. When this occurs, the device transmits an emergency radio signal and emits a loud alarm audio tone.

Alarm Monitoring: Allows the user to monitor the status of other personnel working in the same general area when they are equipped with WorkForce® or other GRACE devices. WorkForce® MUST be in the Sensing Mode to receive Alarm signals from other GRACE devices or equipment.
When one device goes into Alarm and an Alarm Monitoring WorkForce® receives the signal, the Red side LEDs will flash in an alternating pattern. This alert can be cleared for one minute by pressing both side buttons simultaneously. If additional GRACE devices go into Alarm during this one-minute period, the Alarm Monitoring LED display will be reactivated. This cycle will continue until the unit in Alarm is reset or shut off.
NOTE: *If an alarm has been received, the WorkForce® will not turn off until the alarm has been cleared or reset.*

Auto ON/OFF: When this setting is enabled, WorkForce® is turned On and Off by disconnecting or connecting the device into the Charger Adapter.

Dilution of Precision: A term used in satellite-gps navigation to express the positioning accuracy of a GPS enabled device.

EVACUATE: Evacuation signal received, indicating the user should leave the area immediately.

Fall Detection: When in Sensing Mode, WorkForce® monitors the user for a falling motion. Once a possible fall is detected, the unit enters Fall Pre-Alert mode, alerting the user of a detected fall and allowing time (< 15 seconds) to clear the detected fall before an Alarm is activated.

Man-Down Alarm Mode: A WorkForce® or other GRACE safety device enters Man-Down Alarm Mode when the Motion Sensing Timer counts down to zero.

Monitoring Authority: The Monitoring Authority is the person/people responsible for monitoring the status of the devices used by the various on-scene personnel, usually from a centralized base location.

PAR: **P**ersonnel **A**ccountability **R**eport is used to prompt the person wearing the WorkForce® to acknowledge a **PAR-request** signal sent from a **GraceWatch® software monitoring system**. This is designed as a periodic **check-in** for the WorkForce® user providing an indication of their well-being.

Radio Signal Propagation: Radio Signal Propagation is the behavior radio waves exhibit when they are transmitted. Radio Signal Propagation can be affected by structural, environmental, and atmospheric conditions.

Resetting the Device: Simultaneously pressing the side buttons resets the WorkForce®.

ROLL-CALL: Requires the use of a **GraceWatch® software monitoring system** and is designed to signal the WorkForce® user of an escalated situation prompting the user to acknowledge their safety status immediately.

Sensing Mode: When the WorkForce® is turned on, it is in Sensing Mode. In Sensing Mode, the device is monitoring radio traffic for alarm messages. The WorkForce® is also sensing motion, if enabled.

Unit ID: The Unit ID is the unique ID number assigned to the WorkForce® device for the purpose of radio communication. It can be viewed on the HID WorkForce® Configuration Tool.

Unit OEM: The Unit OEM is a number assigned to the WorkForce® device and is similar to the Unit ID. The key difference is the Unit OEM is not a unique number to each device. In most applications all of the WorkForce® devices will have the same OEM number; from the factory, this number will usually be 9090.

Read Instructions Before Use
Always test WorkForce® prior to use

Operating Instructions
(90 seconds to Alarm used for example)

ACTIVATING WorkForce®: Simultaneously pressing both side buttons turns the WorkForce® ON and activates Sensing Mode. In Sensing Mode, the device is monitoring radio traffic for alarm messages. The WorkForce® is also sensing motion, if enabled. *When Auto-ON/OFF setting is enabled, disconnecting the unit from the charger adapter will activate WorkForce® and put into Sensing Mode.*

During activation, an operational signal of escalating audio tones will be heard and the Power Indicator (at upper left) will begin to blink approximately once per second. A pair of Green LEDs in the Alarm Ring will begin flashing in an alternating display to indicate motion is being sensed.

When WorkForce® is activated, its internal radio transmits signals to other GRACE devices and equipment.

PRE-ALERT MODE: When a user remains motionless, a Pre-Alert warning will begin to sound approximately 12 seconds before going into Alarm Mode. When no motion is sensed for approximately 78-83 seconds, WorkForce® begins an audible Pre-Alert sound and an alternating Yellow LED display in the Alarm Ring. *If motion is detected during Pre-Alert, WorkForce® will reset into Sensing Mode.*

ALARM MODE: There are two methods of activating Alarm Mode.

1) MOTION ALARM: After 90 to 95 seconds of no motion, WorkForce® enters the Alarm Mode.

2) PANIC ALARM: WorkForce® user can activate Alarm Mode at any time (from **Sensing Mode** or **OFF Mode**) by pressing the Emergency Alarm Button.

ALARM MODE: Is indicated by a rapid pulsing of Red LEDs in the Alarm Ring while sounding a loud audio alarm. During alarm, an emergency radio signal is transmitted to other GRACE devices and equipment, alerting personnel that personnel may need assistance.

RESET Alarm Mode: Return WorkForce® to **Sensing Mode** by simultaneously pressing both side buttons.

OFF: When in Sensing Mode, turn OFF by simultaneously pressing and holding both side buttons (for approximately 3 seconds) until a series of de-escalating audio tones are heard and all LED activity cease. *When Auto-ON/OFF setting is enabled, connecting the unit to the charger adapter will turn the WorkForce® OFF.*

WorkForce® SPECIAL FEATURES

EVACUATION ACKNOWLEDGMENT: If an Evacuate message is received by the WorkForce®, it can be manually acknowledged by simultaneously pressing both side buttons.

ALARM MONITORING: Allows the user to monitor the status of other personnel working in the same general area when they are equipped with WorkForce® or other GRACE devices. WorkForce® MUST be in the Sensing Mode to receive Alarm signals from other Grace devices or equipment. When one device goes into Alarm and an Alarm Monitoring WorkForce® receives the signal, the Red side LEDs will flash in an alternating pattern. This alert can be cleared for one minute by pressing both side buttons simultaneously. If additional GRACE devices go into Alarm during this one-minute period, the Alarm Monitoring LED display will be reactivated. This cycle will continue until the telemetry unit in Alarm is reset or shut off.

NOTE: *If an alarm has been received, the WorkForce® will not turn off until the alarm has been cleared or reset.*

FALL DETECTION:

WorkForce® is capable of detecting a fall of greater than 4ft. If a fall is detected, the device will enter the Fall Pre-Alert state for 15 seconds to allow the user to reset the WorkForce® after a false trigger or a fall that

does not require assistance. Fall Pre-Alert can only be reset by simultaneously pressing both side buttons. If the Fall Pre-Alert is not reset within 15 seconds the device will automatically enter the Fall Alarm mode. This will send out a Fall Detected Alarm message to any compatible Grace monitoring equipment.

FALL PRE-ALERT MODE: Is indicated by alternating Yellow LED display in the Alarm Ring, and a double beep after the Pre-Alert tone. Fall Pre-Alert may be cleared by simultaneously pressing both side buttons.

FALL ALARM MODE: Is indicated by rapid pulsing of the Red LED's in the Alarm Ring while sounding a loud audio alarm with a double beep. Clear the Fall Alarm by simultaneously pressing both side buttons.

IMPORTANT NOTE: WorkForce® model WF1 cannot detect every possible type of 'fall'-event and it is the user's responsibility to be trained to always push the Emergency Alarm button, if they are able, following any type of 'fall'-event.

WorkForce® Mounting and Attachment

WorkForce® is equipped with a high-strength grip-clip designed for secure attachment to personnel gear such as to a vertical strap on the upper left or right shoulder with the sound port facing out, or on the right or left hip area. The optional swivel-clip attachment is designed to clip onto a horizontal belt or strap. **However, the ideal wearing position of WorkForce® is often best determined by the end user for ease of access and operation.**

IMPORTANT NOTE: For the WorkForce® to properly sense a falling motion, the device must be securely attached to the user.

Mode Selection

ON (Sensing Mode)
- Simultaneously press both side buttons to activate WorkForce® and put into **Sensing Mode**.
- **Auto-ON:** when Auto-ON/OFF setting is enabled, disconnecting the unit from the charger adapter will activate WorkForce® and put into **Sensing Mode**.

ALARM
- **Alarm Mode** can be manually activated at any time (from **Sensing Mode** or **Off Mode**) by pressing the Emergency Alarm Button.

RESET
- When in Alarm or receiving an EVACUATE signal, **RESET** WorkForce® to **Sensing Mode** by pressing both side buttons simultaneously.

OFF
- When in **Sensing Mode**, turn **OFF** by simultaneously pressing and holding both side buttons until the unit deactivates.
- **Auto-OFF:** when Auto-ON/OFF setting is enabled, WorkForce® is turned OFF by connecting the unit to the charger adapter.

Visual / Audio Mode Display

OFF
- No LED Display.

ON (Sensing Mode)
- A series of escalating, loud audio tones.
- Green alternating LED display in Alarm Ring.
- Power LED flashing approximately once per second.

PRE-ALERT
- No motion sensed for 78-83 seconds.
- Amber alternating LED display in Alarm Ring.
- Loud, sweeping audio tones.

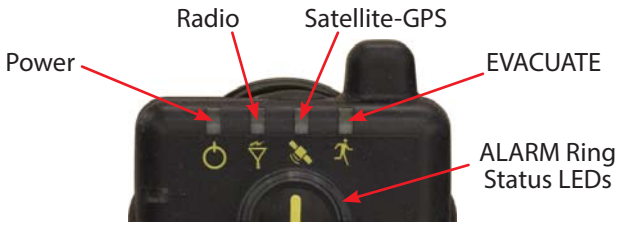
ALARM
- No motion sensed for 90 to 95 seconds.
- Rapid pulsing of Red LEDs in Alarm Ring.
- Loud audio alarm.
- Audio Alarm pauses briefly as an aid for determining direction when personnel need assistance.
- Radio LED flashes Green when transmitting the emergency radio signal.

EVACUATE
- Running Man LED Flashes Red when receiving an EVACUATE signal from another Grace device or equipment.

SATELLITE-GPS
- Slow blinking Green LED when GPS signal is acquired.
- Slow blinking Red LED when NO GPS signal is detected.

LOW BATTERY
- Power LED blinks Red when battery charge is below 25%.
- Double chirp sound every five (5) minutes if audio is enabled.
- NO power-on tones.

WorkForce®1 Top LED Indicators



POWER When WorkForce® is ON, Power LED blinks Green approximately once per second. LED blinks Red when battery level is below 25%.

RADIO Flashes Red when transmitting radio signals. Flashes Green when receiving radio signal from other GRACE devices or equipment. Alternating Green/Red flashing when WorkForce® is Out of Range.

SATELLITE-GPS For GPS Equipped devices, the Satellite LED displays status of GPS fix. LED blinks Green when a GPS fix is acquired.

EVACUATE Displays EVACUATION status of the WorkForce®. Flashes Red when receiving an EVACUATE signal.

ALARM RING STATUS LEDs: LED ring surrounding Emergency Alarm Button.
- Rapid pulsing **Red** LEDs when in Alarm.
- Alternating **Yellow** LEDs when in Pre-Alert.
- Alternating **Green** LEDs when in Sensing Mode.

System Status (Side) LED Indicators

The System Status LEDs perform several functions. Four (4) Red/Green LEDs are numbered 1 through 4 and arranged along the left side of the device beginning with #1 at the upper left and #4 at the lower left.

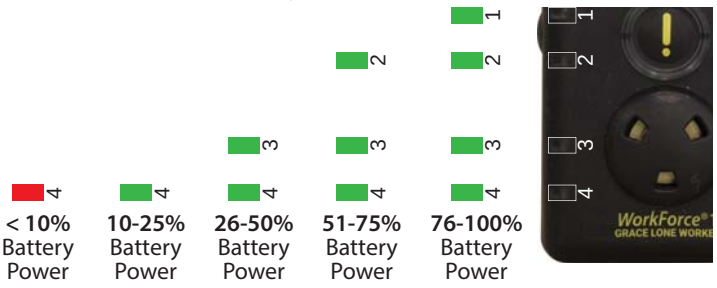
Alarm Monitoring (AM): If AM is enabled, Red LEDs will flash in an alternating pattern when an Alarm signal is received from a GRACE Man-Down device.

System Fault Detected: If a System Fault is detected, the LEDs will indicate the detected fault. (Please see Troubleshooting chart/diagram on Page 4 for detailed information).

Battery Power Level: When either side button is pressed, System Status LEDs will display the remaining battery power level. ***(See diagram below).***

Battery Charging Status: When charging the WorkForce®, the System Status LEDs will indicate the current battery power level.
- **Battery fully charged:** All 4 LEDs will blink Green.
- **Partially charged:** While charging, these LEDs will cycle from #4 up to the current Battery Power Level.

Battery Power Level



Battery Charging

When less than 3 hours of operating time remain in Sensing Mode, the WorkForce® Power LED will blink Red. The power-on tones are not emitted when WorkForce® has a low battery. When audio is enabled, low battery is also indicated by a double chirp sound once every five minutes. **Warning: There are no audible low battery sounds with audio tones disabled.**

When low battery is indicated, less than 3 hours of operating time remain and the battery should be charged immediately.

With the 120VAC charger provided, recharge time is approximately 3 hours from a low battery warning and 4 hours for a dead battery.

Typical operation time between recharging is approximately 40 hours in Sensing Mode.

An optional 12VDC charging adapter is available.

NOTE: Charging via computer USB port may take longer.

Plug the charger into an outlet. It takes approximately 10 seconds for the unit to detect a charger connection and begin to show charging status. Charging status is displayed on the side LED status bar 1-4. This battery charge status will be indicated by the number of blinking status bar LEDs.



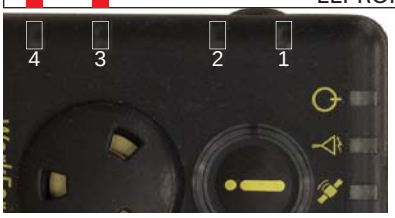
WorkForce® with Micro B USB Cord and 120VAC Charger Adapter (p/n: 120-G-WF950)
Optional 12VDC Charger Adapter shown at left

Battery Charging Status: When charging the WorkForce®, the System Status LEDs will indicate the current level of charge.

- Battery fully charged: All 4 LEDs will blink Green
- Partially charged: While charging, these LEDs will cycle from #4 up to the current Battery Power Level.

System Faults

LEDs				Fault
4	3	2	**1**	Real Time Clock (RTC) Not Set
4	3	**2**	1	Settings
4	3	**2**	**1**	Data-Log
4	**3**	2	1	Radio
4	**3**	2	**1**	Temperature Sensor
4	**3**	**2**	1	Data-Log Hardware
4	**3**	**2**	**1**	12C0 Bus Lockup or Timeout
4	3	2	1	GPS (Solid Red Top LED also)
4	3	2	**1**	Real Time Clock Chip Not Responding
4	3	**2**	1	Battery System
4	3	**2**	**1**	Accelerometer Fault
4	**3**	2	1	EEPROM Fault



Pre-Alert and Alarm Time Periods

Alarm Time	Pre-Alert	Alarm
30 seconds	Pre-Alert 18 to 23 seconds	30 to 35 seconds to Alarm
60 seconds	Pre-Alert 48 to 53 seconds	60 to 65 seconds to Alarm
90 seconds	**Pre-Alert 78 to 83 seconds**	**90 to 95 seconds to Alarm**
120 seconds	Pre-Alert 108 to 113 seconds	120 to 125 seconds to Alarm
180 seconds	Pre-Alert 168 to 173 seconds	180 to 185 seconds to Alarm

90 seconds is standard setting (factory default) from the Manufacturer.

WARNING: Any motion sensing Alarm Time period longer than 90 seconds is potentially dangerous to the user of this product. The longer the motion sensing time period is, the greater the risk of exposing the user to a delayed response to an incapacitated, distressed worker.

Features

- Large button for manual activation of Emergency Alarm
- Man-Down safety monitoring feature provides the User with motion sensing protection
- Audible and Visible Pre-Alert warning before Man Down Alarm
- Audible and Visible Indicators for all Modes of Operation
- RF (radio-frequency) wireless signaling for immediate notification of personnel emergency distress
- No voice radio needed for Evacuation signaling and user acknowledgment
- Alarm Monitoring function alerts the user that a Grace Man-Down device, within signaling range, is transmitting an alarm message
- High performance radio signaling with Smart-Signal® repeating capability
- Tracking the location of WorkForce®1 is possible when used in conjunction with Grace Locator Beacon and either a GRACE SMS or Grace-Watch® safety monitoring system

Specifications

- **Model:** WF-1-H, User Model.
- **Dimensions:** 2-1/4" wide, 1-1/4" deep (without clip), 3-3/8" high.
- **Weight:** 5.7 oz.
- **Internal Battery:** 3.7 V nominal, 1960 mAh, lithium-ion rechargeable.
- **Device Run Time:** Approximately 40 hours in Sensing Mode, and 8 hrs. in Alarm Mode.
- **Radio Frequency:** ISM license free, spread spectrum.
- **Battery Charger Operational Voltage:** 120VAC or 12VDC.
- **Battery Charge Time:** 3 - 4 hrs.
- **USB Connector:** Micro B USB connection for battery charging and WorkForce®1 configuration.
- **Certifications:**
  - FCC ID: J5XT5HIP
  - IC: 5916A-T5HIP
  - AS/NZS 4268:2017

FCC Statements

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

Industry Canada Statements

This Class A digital apparatus complies with Canadian ICES-003.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.(select the class for your device)

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Warranty Information

Grace industries, Inc. warrants this product to be free from defects in workmanship and materials for a period of one year from the date of purchase. This warranty is valid only when the returned product is accompanied by a sales slip or other proof of purchase that states the date and location of purchase. Grace Industries, Inc. will not repair or replace any merchandise under warranty which has been damaged because of accident, misuse or abuse while in possession or control of the consumer. This warranty is void if any attempt to repair or replace parts was made or attempted by other than qualified Grace Industries, Inc. personnel. This warranty is void if any of the sealed compartments are opened or tampered with.

Send all returned merchandise, prepaid and accompanied by proof of purchase to: Grace Industries, Inc., Repair Division, 305 Bend Hill Road, Fredonia, PA 16124 USA. Grace Industries, Inc. shall not be liable for any direct, incidental or other consequential loss or damage arising out of the failure of the product to operate. End-user or customer is responsible for return shipping/freight charges.

The sole and exclusive remedy under all guarantees or warranties, express or implied, is strictly limited to repair or replacement as herein provided. ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO, WARRANTIES OF FITNESS AND MERCHANTABILITY, ARE HEREBY LIMITED IN DURATION TO A PERIOD ENDING ONE (1) YEAR FROM THE DATE OF PURCHASE. The warranty and liability set forth in the prior paragraphs are in lieu of all other warranties, expressed or implied, in law or in fact, including implied warranties of merchantability and fitness for a particular purpose. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

This warranty gives you specific legal rights and you may also have other rights which may vary from state to state.

This information is believed to be accurate and reliable. Grace Industries, Inc. provides this information as a guide only.

Technical assistance is available by contacting Grace Industries, Inc. by telephone at 724-962-9231, M – F, 8:00 am – 4:30 pm.

For training purposes a copy of User's Information is available by contacting Grace Industries, Inc. at www.graceindustries.com or by mail to: 305 Bend Hill Rd, Fredonia, PA 16124 U.S.A.

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HID WorkForce®Configuration Tool
User's Manual



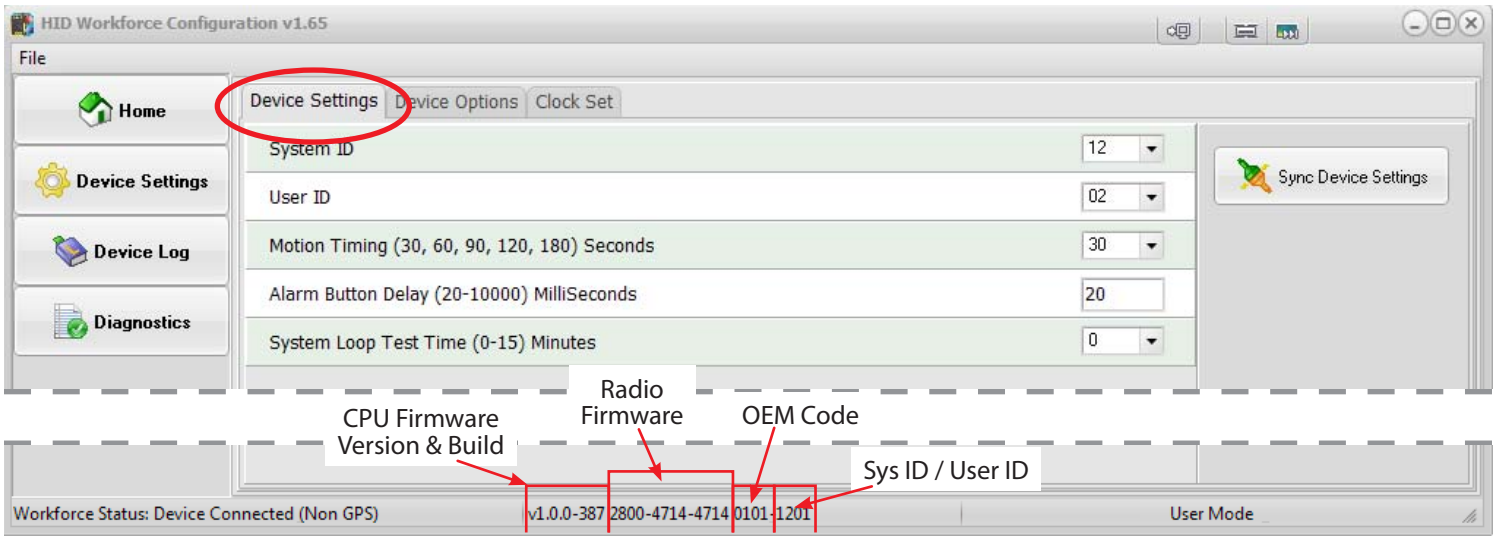
WorkForce® is a motion-sensing Man-Down Alarm that uses high performance RF (radio-frequency) wireless signaling to help protect workers in dangerous and hazardous environments.

HID WorkForce® Configuration Tool allows users to customize the settings of their WorkForce® by connecting the device to a PC with a Micro B USB cable and running the GRACE utility (HID Work-Force® Configuration) tool.



To use the configuration tool:

1. Run the program installer if the configuration tool is not already installed on your Windows PC.
2. Open the configuration tool.
3. Follow the instructions on the tool to connect to your WorkForce® device.
4. Once the device is connected, you will hear 2 quick beeps and all 4 side status bar LED will glow green. The WorkForce® configuration tool should display the current device settings within 30 seconds of the 2 quick beeps.
5. Setting will not be changed until the <Sync Device Setting> button is clicked. A pop up window will acknowledge that device settings have been updated
6. Note the unit will drop out of HID configuration mode after 5 minutes of inactivity. To reconnect, you must turn the unit off and start over at step 3.



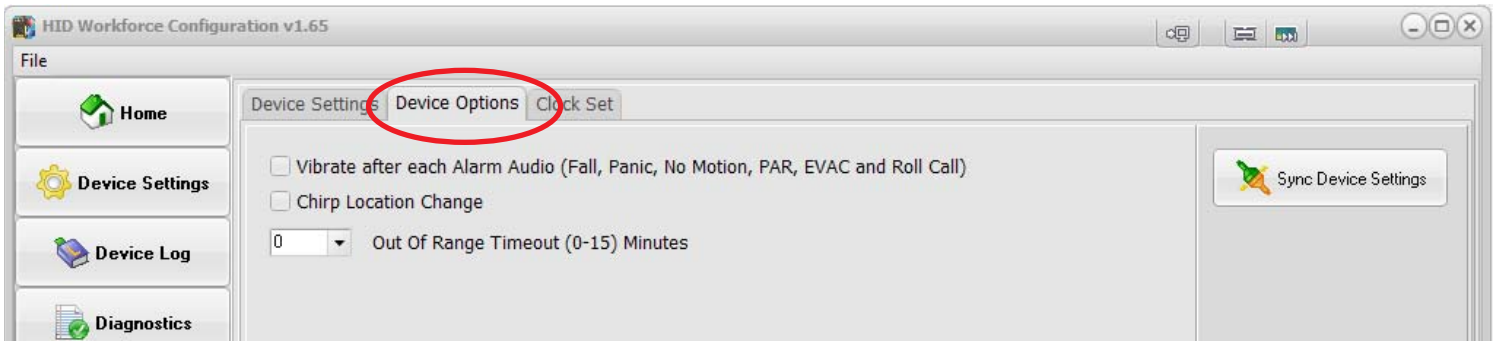
Device Settings Tab:

System ID: (01-FE). This selection allows you to change the Grace System ID of the WorkForce®. Caution must be taken that the new ID is not already in use and is set to be monitored.

User ID: (01-99). This selection allows you to change the Grace User ID of the WorkForce®. Caution must be taken that the new ID is not already in use and is set to be monitored.

Motion Timing Seconds: This setting controls how long the user and device can remain montionless before the Man Down Alarm is activated. A Pre-Alert warning will begin to sound approximately 12 seconds before the Man-Down Alarm, indicating the WorkForce® is closer to going into Alarm. Available timing (in seconds) includes: 0, 30, 60, 90, 120, 180, 300, 600, and 900. **NOTE: Setting the timing to zero (0) will DISABLE the motion sensing protection.**

WARNING: Any motion sensing alarm time period longer than 90 seconds is potentially dangerous to the user of this product. The longer the motion sensing time period is, the greater the risk of exposing the user to a delayed response to an incapacitated, distressed worker.



Device Options Tab:

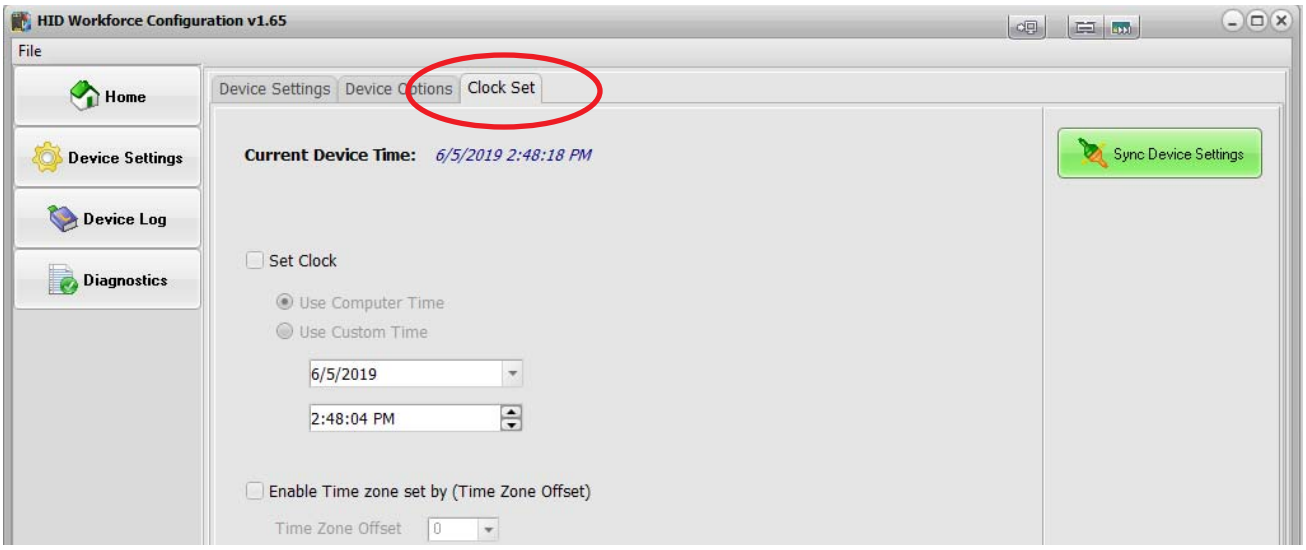
❑ **Enable Alarm Audio:** With this box checked, the unit will produce the audible Alarm sound. If unchecked, no Alarm audio will be heard and an Alarm will be indicated only by the Red Alarm Ring LEDs and Alarm Vibration. *NOTE: The audible Pre-Alert warning is not affected by this setting.*

❑ **Alarm Vibe Continuous:** With this box checked, WorkForce® will vibrate with every Alarm audio cycle. If unchecked, the device will vibrate only once.

❑ **Alarm Monitor other Grace devices:** Enables Alarm Monitoring (AM) function. With this box checked, WorkForce® will alert the user of other Grace Devices in the area that are in Alarm.

❑ **Chirp on Location Change:** With this box checked, WorkForce® will produce an audible chirp when it detects a new Grace Locator Beacon.

❑ **Signal Loss and Out of Range Timeout (1-15 Minutes):** This function is disabled when set to zero (0). When timeout is set to 1-15 minutes, the Out of Range alert will occur if WorkForce® has not received a ping message from a base station within the set timeout period. NOTE: To use this function, WorkForce® must be used with, and in communication with, a Grace Base (MS2000, SMS, GraceWatch, Alarm Box, MX900, etc.)



Clock Set Tab:

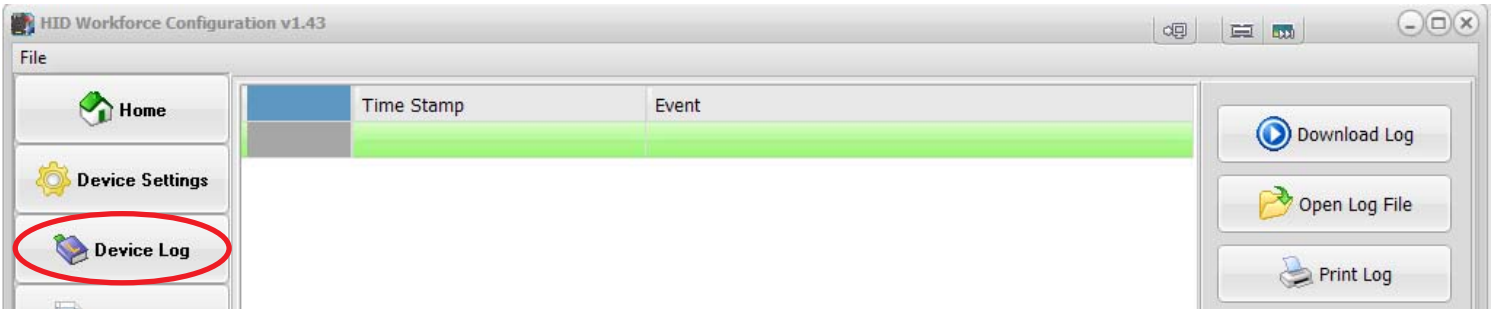
Current Device Time: Displays the current time and date of the connected WorkForce®.

NOTE: The WorkForce® date and time will not be updated until the Sync Device Settings button is pressed.

❑ **Set Clock:** Check this box to enable the time setting options. Selecting "Use Computer Time" will match the device to the time and date of the connected computer. "Use Custom Time" will allow you to set the WorkForce® date and time as desired.

❑ **Enable Time Zone Offset:** Check this box to enable Time Zone Offset. NOTE: Eastern Standard TIme (EST) is GMT -5 hours.

Sync Device Settings: After the desired date and time settings are complete, press the Sync Device Settings button to update time and date of the connected WorkForce®.



Device Log:

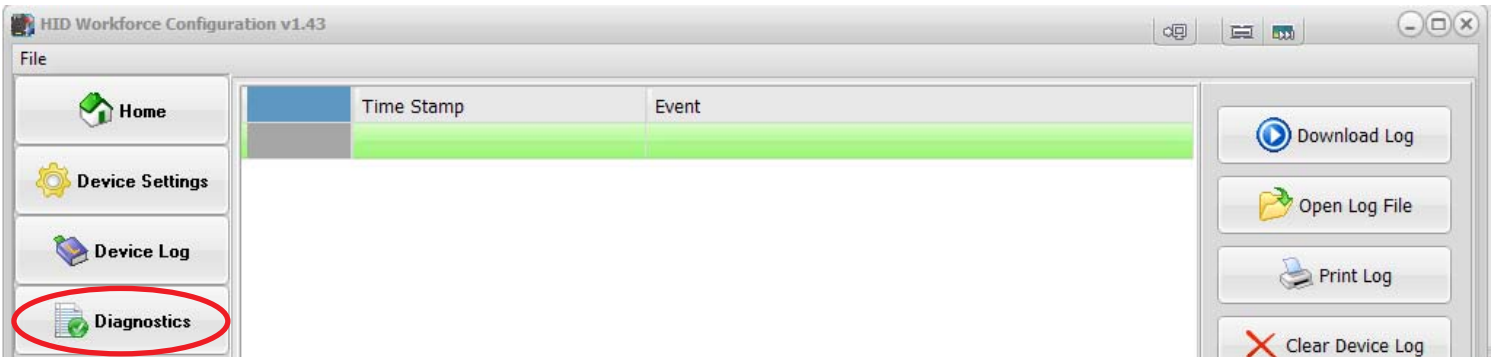
This window is for accessing WorkForce® device logs.

Download Log: Allows you to download the log from a connected WorkForce® device.

Open Log File: This allows you to save a downloaded log to you local system for future retrieval.

Print Log: Prints existing Log file.

Clear Device Log: This erases the logs in the connected device.



Diagnostics Window:

This window shows USB connections diagnostics data. You can save the diagnostic log for debugging if needed.



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(724)-962-9231