



410BT Single Station Battery Operated Timer



INSTRUCTION MANUAL

410BT Single Station Battery Operated Timer

Thank you for purchasing DIG's 410BT Single Station Battery Operated Timer. This manual describes how to get the 410BT series timer up and running quickly. After reading this manual and becoming familiar with the basic functionality of the timer, use the manual as a reference for less common tasks in the future.

About the 410BT-MVA Battery Operated Timer

The 410BT series watering controller employs the latest in Bluetooth technology using the free DIG BTT app for Android or iPhone. The 410BT is available as a single station battery operated timer and is powered by two AA batteries that can last up to 1 year using name brand alkaline batteries. The timer is enclosed in a compact, waterproof housing to protect it from the elements.

Specification

- Operating pressure: 10 to 120 PSI (.7 to 8.3 bar)
- Temperature range: 38°-130° F (-2° to 54° C)
- Flow range: .1 to 6 GPM (.38 to 30 L/H)
- Power source: 2 AA alkaline batteries (not included)
- USA Connection: Female hose thread inlet (FHT) x male hose thread outlet (MHT)
- International Connection: British standard thread for tap (BSP)
- Dimensions: 5.5" x 3.1" x 4.3"
- Weight: 8 oz.

Component Identification



Installing Batteries

1. Open the battery compartment cap by turning it counter-clockwise.
2. Install two, fresh, brand name, AA alkaline batteries (not included) and note the proper direction of the positive and negative orientation on the underside of the timer.
3. Insert and screw the battery cap clockwise. Make sure to securely tighten the cover firmly by hand only. The timer will now appear on the smartphone app and is ready to be connected to and programmed.

Valve Adapter Installation

The 410BT series controller includes 3 adapters to retrofit Rainbird, Hunter and Toro valves. Follow the instructions below to install.

1. Shut off the main water supply
2. Remove the existing solenoid if applicable.
Note: If adapting to an IRRITROL valve, remove the solenoid but leave the existing solenoid adapter installed.
3. Select the appropriate solenoid adapter associated with the valve. (see chart A)
4. Screw the solenoid adapter into the valve bonnet by hand, tighten with pliers if necessary – but do not over tighten.
5. Thread the 410BT series solenoid into the valve adapter. Hand tighten only.
6. Turn the main water supply on and pressurize the valve; the valve may discharge water momentarily but should then shut off.
7. Test the controller and the installation by pressing the button on the controller or see section 6 on how to perform a manual run through the app. To turn the valve on via the solenoid, lift the 410BT series controller from the solenoid and turn the solenoid counter clockwise $1/2''$ to $3/4''$ of a turn, or until you hear or see water flowing through the valve. To turn the water off, turn the solenoid clockwise $1/2''$ to $3/4''$ of a turn and wait for the a few seconds for the valve to close.
8. Program the 410BT series controller (see section 7).

In-line valve Installation

Rated operating pressure: 10-125 PSI

Recommended Operating Pressure: 10-80 PSI

Warning: Wrap all fittings with Teflon tape! Do not use pipe cement on valve as this will damage the valve and void the warranty!

1. Shut off main water supply.
2. Install a $3/4$ in. ball or gate valve onto the PVC pipe or to the valve manifold before installing the controller (Figure 1a and 1b).
3. Turn water supply on to flush the line and then shut the water off using the ball or gate valve.
4. Wrap the male threads of the PVC adapters with 4-6 layers of Teflon tape, then tighten into the valve with a wrench.
5. Glue fittings to PVC main line and allow to dry.
6. Turn water supply on to pressurize the system. The controller will open momentarily and then will shut off.
7. The unit is now ready to be programmed.

Programming

Initial Setup:

- Download the DIG BTT app using the iOS App Store, Google Play, or the QR code on the box.
- Remove the battery cap from the timer and insert two fresh, brand name, AA alkaline batteries (not included). The proper orientation is denoted on the underside of the timer.
- Screw the battery cap back on until hand tight.

Programming:

- Open the DIG BTT app and allow it to scan for nearby timers.
Note: Connection range is up to 50 feet (15 meters) line of sight.
- The new timer will appear on screen as the DIG 410BT.
Note: If installing multiple timers, wait until each unit is renamed until inserting the batteries.
- Select the timer to connect to it. The following diagrams show all functionality. Any changes made automatically save and update to the controller instantaneously.

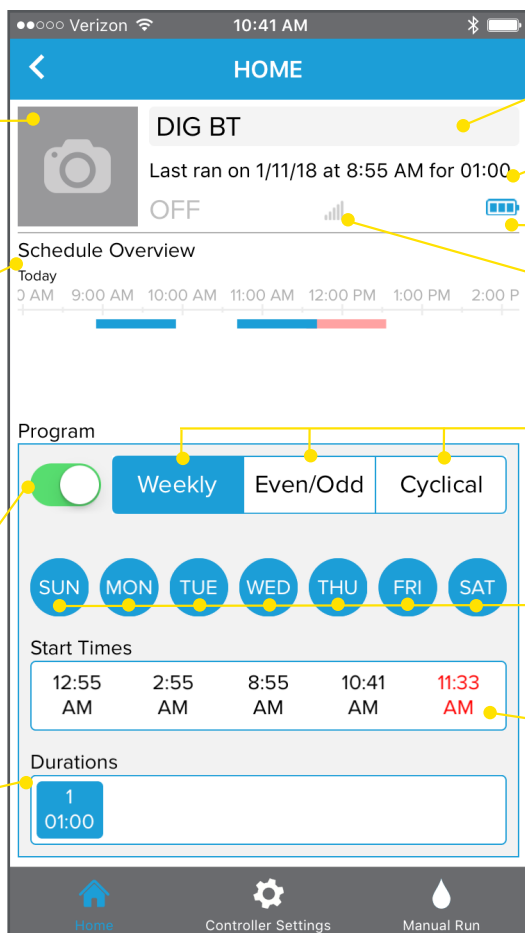
Home Screen

Picture of controller whether controller is currently running or not

Schedule Overview: Shows current program run times. Red lines indicate that there is an overlapping start time

Activate or deactivate the program

Run time for valve



Controller name

Last run information

Battery life

Connection strength

Schedule type

Schedule settings

Up to 5 start times. Select an existing start time to edit/delete. Red start times are overlapping and will not run

Home (current page)

Controller settings

Manual run

The screenshot shows the 'DIG BT' settings screen. At the top, it says 'Last ran on 1/10/18 at 10:55 AM for 01:00.' and has an 'OFF' toggle. Below this is the 'Controller Settings' section with a version 'v1.0 B7'. The settings include: 'System Active' (toggle), 'Rain Delay' (Off), 'Budget' (Jan: 100%), 'Scheduled Off Dates' (0 dates), 'History' (Jan: 40 hours 0 minutes), 'Set Name' (DIG BT), 'Set Picture', and 'Set Password' (No Password). The bottom navigation bar has 'Home', 'Controller Settings' (active), and 'Manual Run'.

Budgeting per month

View monthly watering history for the past 12 months

Set picture for the controller

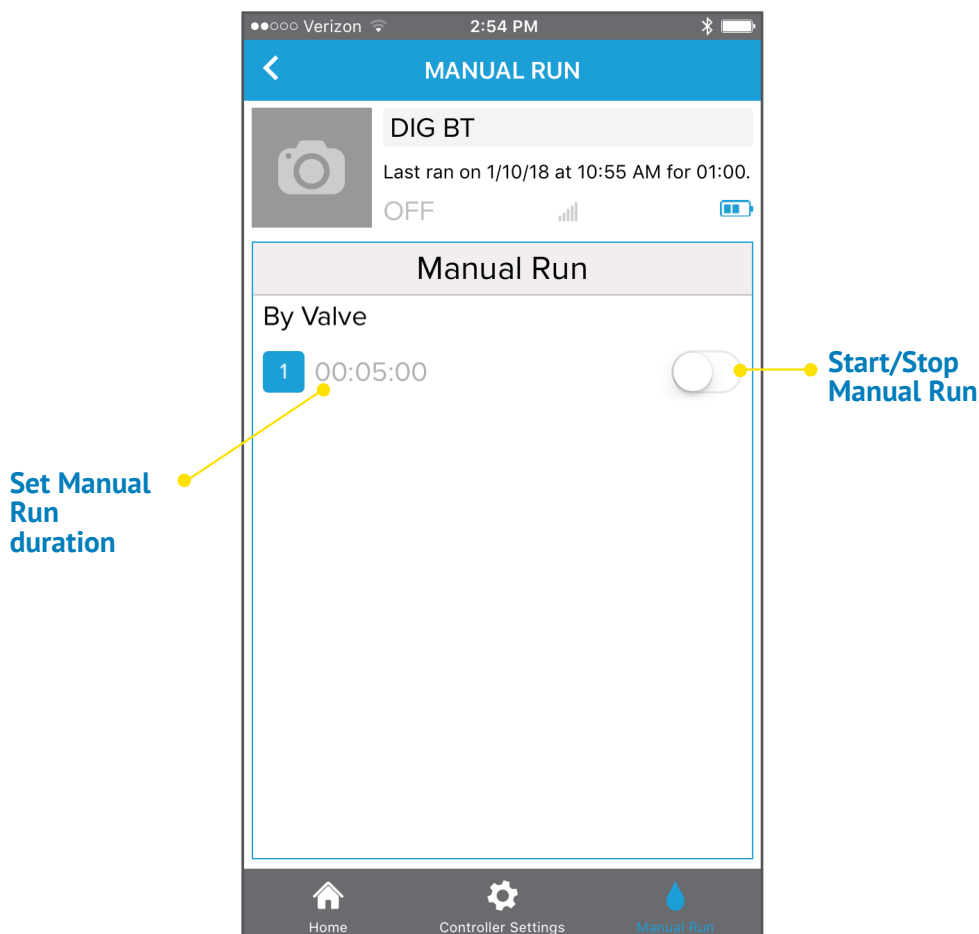
Turn the entire system on/off. Controller will not water

Set a rain delay

Set up to 9 dates where the controller will prevent watering

Set name of the controller

Set password for controller. Password will only be seen when entering controller from a new phone. Reset controller to reset password if forgotten



Reset to Factory Defaults

- Press and hold the button on the DIG BOHE-BT/BOHE-BTI for 15 seconds. This will remove all controller programs, settings, historical information, and any set passwords.
This is the only way to reset a password, so try not to forget it!

Technical Assistance

- Should you encounter any problem(s) with this product or if you do not understand its many features, please refer to this operating manual first

If further assistance is required, DIG offers the following customer support:

- **DIGPRO Technical Service USA:**
DIG's Technical Service Team is available to answer questions in English and Spanish from 8:00 AM to 5:00 PM (PST) Monday-Friday (except holidays) at **1.800.344.2281 or 1.760.727.0914**
- Questions also can be e-mailed to questions@digcorp.com or faxed to 760.727.0282
- Specification documents and manuals are available for download at www.digcorp.com
- Customer Assistance Outside the USA: Contact your local distributor

Warranty

DIG CORPORATION warrants these products to be free from defects in material and workmanship for a period of three years from date of purchase. This warranty does not cover damage resulting from accident, indoor uses, misuse, neglect, modification, improper installation or subjection to line pressure more than 125 lbs. per square inch for anti-siphon valves, in-line valves and from an actuator. This warranty shall extend only to the original purchaser of the product for use by the purchaser. The obligation of DIG CORPORATION under this warranty is limited to repairing or replacing at its factory this product which shall be returned to the factory within three years after the original purchase and which on examination is found to contain defects in material and workmanship. DIG CORPORATION SHALL IN NO EVENT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND; THE SOLE OBLIGATION OF DIG BEING LIMITED TO REPAIR OR REPLACEMENT OF DEFECTIVE PRODUCTS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. Unattended use for prolonged periods without inspection to verify proper operation is beyond the intended use of this product, and any damage resulting from such use shall not be the responsibility of DIG CORPORATION. There are no warranties, which extend beyond the description on the face hereof. In the case of purchase of the product for use other than, for irrigation purposes, DIG CORPORATION hereby disclaims any implied warranties including any warranties of merchantability and fitness for a particular purpose. In the case of the purchase of the product for personal, family or household purposes, DIG CORPORATION disclaims any such warranties to the extent permitted by law. To the extent that any such disclaimer or implied warranties shall be ineffectual, then any implied warranties shall be limited in duration to a period of three years from the date of the original purchase for use by the purchaser. Some states do not allow limitation on how long an implied warranty lasts, so the above limitation may not apply to you. In order to obtain performance under this warranty, the unit must be returned to the factory, along with proof of purchase indicating original date of purchase, shipping prepaid, addressed as follows: DIG CORPORATION, 1210 Activity Drive, Vista, CA 92081. Repaired or replaced units will be shipped prepaid to the name and address supplied with the unit returned under warranty. Allow four weeks for repairs and shipping time. Repair of damaged units not otherwise within warranty may be refused or done at a reasonable cost or charge at the option of DIG CORPORATION. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state. This device complies with FCC and IC radiation exposure limits set forth for an uncontrolled environment. The device should be installed and operated with a minimum distance of 20cm between the radiator and your body. This device must not be collocated or operating in conjunction with any other antenna or transmitter.

I. Changes or modifications not expressly approved by DIG Corporation could void the user's authority to operate the equipment.

II. This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

III. Industry Canada

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.

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'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.