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features ESP-Me Controller.PGM PERMOFF comes with the special feature AeeREPEAT and, if necessary, set a permanent holiday for other days. Turn the dial to the desired day, or use the button to permanently turn the day off or turn it back on.1818 ESP-Me Advanced User Manual Installation Mount Controller Installation Checklist, please select a location when installing the ESP-Me controller for the first time. We recommend that you select the appropriate installation location to access anis and complete the following steps on the power source: Allow clearance of conduits. Connections under the unit, and check boxes of hinged doors are provided for each step: (outdoor models only) to swing completely open to the left, that is, to collect all of the checkbox contents (see page IV) Installation tool (see below) Allwater.gr11 IN. Rain+Birdtwn Controller 3 IN. Wn can not install the connection controller power rope station module (optional) to close the field wire to connect the mount controller. Marking Pencil OutletsSOURCEB. Philips Driver bbNOTE: Operating temperature range is 14 degrees F (#1, #2, #3先端) +149 degrees F (-10 degrees C to +65 degrees C). The hammer removes the front panel. Level f. Drill and drill bit 1. Open the controller door and swing it to the left. If necessary, first press (#8ネジの場合) up and then pull it down to remove it from the hinge. Wire stripper. Mounting screw (included) 2.Open the front panel and swing it to the left. The wall anchor (if necessary) gently pulls the connector out of the socket and removes the ribbon cable. a. f. ddCAUTION: Be careful not to bend the socket pins when removing the ribbon cable. b. 1.c. 24 VAC VC MV COM 567 11 12 13 17 18 19 GND 1234 8 9 10 14 15 16 20 22 d. senS e. i. VT MV COM1919 ESP-Me Advanced User Manual 1234 VT Gently pull the panel mount controller up and slide the bottom corner pin from the bottom pin hole to remove the front panel. 1. Attach the mounting screws of the top anchor to the wall. Leaves a 1/8 inch gap between the screw head and 3. Wall. (Use wall anchors as needed.) 2. Find the keyhole slotattach the controller unit and firmly hang it on the mounting screws. 24Allwater.gr VA CVT MV COM 567 11 12 13 17 18 19 GND12348 9 1014 15 1620 21 22 SENS 24 VA CVT 24 VVACT MV GND SENS12342. VT - Valve test connects 1 120 VAC 1/8 in. Remove Knockout 4 Drive three additional mounting screws from the open hole inside the controller to the wall. Verify that the ESP-Me controller cabinet has four knockouts where the unit is securely anchored to the wall. There are three knockouts on the lower side of the three. The cabinet and one are on the back. Tools Required: 4. Flat head screwdriver VT COM 567 11 12 13 17 18 19 Hammer 1234 8 9 10 14 15 16 20 21 22 If you need to remove the knockout: 1. Place the driver's blade in the groove VT MV COM around the knockout and tap it with the hammer. 12342. Drill a hole in the material in two or more places and twist it to remove it. VT - Valve test option connection 120 VAC1.2. Installation2020 ESP-Me Advanced User Manual Power Outdoor ModelccWARNING: Connect the external power supply until you reduce the supply voltage that does not connect the transformer or ESP-Me outdoor controller (check the 120 VAC; 230 and all wiring connections for the US model). VAC in international models; 240 VAC on Australian models) to 24 VAC. Power line toccWARNING: All electrical connections and three wires of transformer must be wired. (Line, Neutral, Ground), the run must comply with local building standards. Some building standards require only licensed ccWARNING: electric shock can cause serious injury or a certified electrician can die of power. Make sure the power is turned off before connecting. Please check with the building where the power line is connected. The code for the guidance. Only professional staff must install the controller. Allwatter.gr Power Wiring Connection 120VAC (USA) 230VAC (International) Electrical Specifications (230V only) Black Power Wire (Hot) to Black Power Line (Hot) Black Transformer Black Transformer Wire Wire Labeled with L Input 230VAC, 0.2AMP, 50/60Hz White Supply Wire (Neutral) to Blue Supply Wire Wire Green transformer wire (wire transformer power cord through conduit 1) with green transformer wire to green transformer wire (green yellow strip 1) to green transformer wire to green (neutral) to blue N output 25.5VAC, 1.0AMP, 50/60Hz green supply wire (ground) green and yellow stripe supply wire (ground) green transformer wire (ground) green transformer wire. Place the transformer wiring compartment at the lower left opening of the unit. Connect the cable/lower left corner of the controller unit. Use the driver cord in the controller cabinet to remove the cover and prevent the transformer from being removed. Connection Wire.ddCAUTION: Do not route the power cord to 1. 24 VAC VT MV COM 567 11Field wire openings in the lower right corner of 13 17 18 19 units. Connect two power lines of the GND 1234 8 9 10 14 15 16 20 21 22 SENS2.Code to the controller's two 24VAC terminal connections. VT MV COM 1234 VT - Valve Test 3.Connect the ground wire of the code to the GND CONNECT terminal. Route 120 VAC 3.24 VAC VC MV COM 567 11 12 13 17 18 19 2.3 external power wires through 2. GND 1234 8 9 10 15 16 20 21 22 22 opens the tube to the bottom of the unit and opens the wiring compartment to SENS. VT MV COM 1234 VT - Valve Test 24 VA C VT MV COM 567 11 12 13 17 18 19 GN D 1234 8 9 10 15 16 20 21 22 SEN S 1.VT MVT CO M4. Transformer is plugged into the outlet. 1234 VT - Valve T EST 2.2121 ESP-Me Advanced User Manual Installation 3.120V: Use the supplied wire nut to connect the station expansion module to the external power supply line (two power supplies and one ground) to the transformer connection wire in the optional station module and attach it to the empty slot wiring compartment. It is displayed on the right side of the base module. You can install 6 stations or 3 station modules in these slots to increase station capacity to up to 22 stations. 24Allwater.gr VAVET MV COM56711 12 1317 18 19 Module Option GND12348 9 1014 15 1620 21 22 SENS VT MV COM 1234 Basic Module Expansion Module (sold separately) VT Use one of the connectors. Rain + Bird Rain + Bird 3. LN 3 Station 6 Station (ESPSM3) (ESPSM6)cc WARNING: The ground line must be connected to provide electrical surge protection. Permanently bbNOTE: 6 station modules must be used to connect the main SP-Me, which is only compatible with mounted conduits. There is no backward compatibility with the voltage to the controller. Previous Vintage Controller.4. After verifying that all wiring connections are safe, bbNOTE: For the ideal station sequence, it is recommended to replace the wiring compartment cover and always secure the 6 station module to the screw. It will be installed in Bay 2. For more information, see the Station Numbers section. Install Module 1. Make sure the module's secure lever is in the unlocked position (slide to the left). 2. Place the module under the desired slot between the plastic rails: 1. 2.3. Push the module into the slot until Secure.2222 ESP-Me Advanced User Manual Installation 4. Slide the locking lever to the lock position (slide to the module configuration on the right). When proper configuration is important 4.Installation example including station number gap: A total of 19 stations are installed: 3. The base module is installed in Bay 1 and the additional modules use StationseeREPEAT. Allwater.gr 1 to 4.bbNOTE: Modules or six-station expansion modules can be installed in bay 2 and installed and removed without connecting AC power. These are thought to be 3. Hot-swappable. Three station modules are installed in Bay 4, and station numbered stations are used.Through the 19. Because bay 4 has three station modules installed, only the first three station numbers assigned to that bay are used, and unused numbers are reserved for the future, and the controller is set with a fixed station numbering. Use. While each bay is programmed to accept and reserve 6 station modules, if the 6-station module is a station number, the controller skips the unused station number, creates a station number, and creates a bay in the station number. It is not installed in bays 2, 3, or 4. In this case, station 20-22 cannot be used for programming because a three-station module is installed in bay 4. Some station numbers are pre-assigned as follows: Programming a missing station will appear on screens such as 20NOMOD, 21NOMOD, etc. Bay 1 Bay 2 Bay 3 Bay 4 Station VT MV COM 567 11 12 13 17 18 19 1234 8 9 10 14 15 16 20 21 22 20NOMODVT MV COM screen flashes 20NOMOD to indicate that station 20 (and 21-22) is unused. Example of optimal installation of 19 station bbNOTE: Station number gap does not prevent the controller from working properly. This only affects station numbering. While programming to connect to AC power, the controller skips unused stations that do not have modules installed. 2323 ESP-Me Advanced User Manual Installation Wiring Connection Master Valve connects the valve wires of each station and connects the optional master valve to the ESP-Me (optional) master valve, pump start relay or rain controller. Sensor. 1. Route the master valve wire through the opening of the knockout connection valve at the bottom or back of the unit. Wire the valve wire through the knockout opening in ddCAUTION: Prevent the master valve from wiring to the bottom or back of the unit. through the same opening as the power supply wiring. 2. Connect the power supply line from the master valve to the saiddCAUTION. Basic module master (MV) Terminal.2.Connect the power line from each valve to terminal 3. Connect the common wire of the master valve to the base module or station module corresponding to the common (COM) terminal of the base module. To the desired station number (1-22). 2. 3.3. Connect a common wire from each valve to the 24AVAC lwater.gr COMMON (COMMON) terminal of the base module. GND VT MV COM 567 11 12 13 17 18 19 SENS 1234 8 9 10 14 15 16 20 21 22 24 VAC GND SENS4.To perform valve testing, connect the common wire VT MV COM to the COM terminal and connect the power wire to the VT terminal. This will turn the valve ON immediately. 1234 VT - Valve test connection 120 VACCWARNING: VT terminal always on. 4. 3.Power Common 1.2.Master Valve VT MV COM 567 11 12 13 17 18 19 1234 8 9 10 14 15 16 20 21 22 VT MV COM 1234 VTAdvanced user manual installation connection pump start relay 24AVAC llwater.gr VT MV COM 567 1234 8 9 10 14 15 16 20 21 22ESP-Me SENS controller to connect the optional pump start relay. 24 VAC VT MV COM GND pumps are used in several places to draw water from well SENS 1234 or other sources. If you want to start the pump from the controller, you need to install a pump start relay. The VT-valve test pump start relay connects to a controller in the same CONNECTway as the master valve, but with a different connection with water 120 VACsource. 4.bbNOTE: ESP-Me controller does not provide main power to the pump. ddCAUTION: To avoid deadheads, your pump will do one of the following for all unused stations (module 1): Route the pump start relay wire through the attached knockout, but it is not connected to the station wire): Open the opening at the bottom or back of the unit. Connect jumper wires between unused stations. LI Set the station runtime to 0.ddCAUTION: Configure the station to bypass II MV that does not route pump start relay wires. (See Settings through the same opening as the power supply wiring.) Master Valves by Station in the Special Features section. 2. Connect the relay input wire of the pump start relay to the master (MV) terminal of the base module. bbNOTE: The default execution time for program A is 10 minutes for stations 1 to 4.3. Connect a common wire from the pump start relay to the common (COM) terminal of the base module. BBNOTE: The controller can support a maximum coil inrush current of 11VA and a maximum coil hold of 2. 5VA current. 3. The following rainbird pump start relays are available only in the United States: VT MV COM 567 11 12 13 17 18 19: 1234 8 9 10 14 15 16 20 21 22 RBSR24WG1 - Universal Pump Start Relay VT MV COM RBPL24WG1 - The compatibility list of pump start relays and pump start switches up to 1234 relays Please visit our website: VT - Valve Test www.rainbird.com/controllersupport CONNECT bbNOTE: This controller is not compatible with 120 VAC Hunters ©PSR22 and PSR52. Relay common 1.Input pump start relay to external power supply 4. Connect a short jumper wire from an unused station terminal to the terminal you are using. Configure the controller to follow the rain sensor. When the rain sensor is installed, the automatic irrigation willbbNOTE:ESP-Me controller is not compatible with suspend if the sensor detects rainfall. When bypassing the sensor with a normal open-rain sensor. All programs are set to ACTIVE to follow the rain sensor. It is usually used with closed rain sensors. 1. Turn the dial to the rain sensor. In the terminal stand, remove the yellow jumper wire 2. Press the SENS terminal or press to discard. 24VAC r selects Active. GND SENS ACTIVE24VAC All-Water.g VT MV COM 567 11 12 13 17 18GND12348 9 1014 15 1620 21 22 SENS VT MV COM 1234 VT = バルブテストは120 VACを取り外し、ジャンパーワイヤを廃棄します。 Rain sensor symbols that route rain sensor wires through knockouts are displayed on the display of AUTO openings at the bottom or back of the unit. If the rain sensor is set to BYPASS.ddCAUTION, do not route the RUN or OFF: rain sensor wire symbol sun 427PM through the same opening as the power wiring. Figure 3. Connect both rain sensor wires to the SENS terminal. 3. VT MV COM 567 11 12 13 17 18 19 1234 8 9 10 14 15 16 20 21 22 VT MV COM If the rain sensor is set to ACTIVE, the symbol is not displayed. 1234 VT - Valve test connects 120 VAC NO SUN 427PM symbol wired rain sensor sensor Wires Option 2. Wireless Rain Sensor bbNOTE: For more information, see the Rain Sensor section RAIN BIRD in the Advanced Options section of this manual. Model: WR2RC or WR2RFC IS bbNOTE: The alert light no longer lights up when rainfall delays available irrigation. First insert the top pin into the top pin hole and reinstall the front panel. Then slowly pull up and slide the bottom corner pin into the bottom pin hole. 1. 24 VAC VT VT COM 567 11 12 13 17 18 19 GND 1234 8 9 10 14 15 16 20 21 22 SENS 24AVAC llwater.gr VT MV COM GND SENS1234 VT - Valve Test Connection 120 VACPIN - Corner 2.HOLE PIN3.Gently push the connector into the socket and reconnect the ribbon cable to the front panel (turn the red line on the ribbon cable up): ddCAUTION: Be careful not to bend the socket pin. 3. VT MV COM 567 11 12 13 17 18 19 1234 8 9 10 14 15 16 20 21 22 VT MV COM 1234 VT - Turn on the controller and test the system.bbNOTE: You can check the electrical connection even if water is not available. If water is available and you want to test some or all of the stations, Controller.2727 ESP-Me Advanced User Manual Install Test option feature 3 to use all station features. Program the controller. Connect the optional accessory bbNOD: Program information is stored in non-volatile memory, so it will not be lost if the front panel is omitted BBNOTE: Turn on using only rain Bird approved devices. 5-pin accessory port. Unapproved devices can damage the controller and void the warranty. 4. Replace the front panel (see Complete installation) The front panel has a port for using the external installation section.) Devices such as Rainbird LMR Remote. bbNOTE: Stations that do not have a corresponding station 1 after the front panel is reinstalled. Installed modules function as if the runtime were zero. Allwater.grRemote programming programs the front panel remotely on battery power. The front panel can be removed from the controller and programmed remotely using a 9-volt battery for power supply. Settings can be programmed on all 22 stations, regardless of which station module is installed.This is useful if the contractor programs the controller before installing it on the site. Remove the front panel (see Removing the Front Panel in the installation section). Attach the 9V battery to the battery compartment. 1. 2.2828 ESP-Me Advanced User Manual Optional Feature Troubleshooting Alert LED light on the ESP-Me controller front panel indicates alarm status: If the Battery Life ALERT display repeatedly displays --- --- --- when using 9Vbattery for remote programming, replace the battery. If the controller is not working properly, reset the reset button error warning error message LED with the display press RESET (flash the LED). [Start time is not set] No flashing start time reset button resets the controller. Active irrigation No-run time, BLINK NO RUN TIMEsis set to cancel, but all previously programmed days without watering are set to flashing and the water day schedule remains stored in memory. Irrigation resumes the next scheduled start time Allwater.grat. If the error is 1, the ESP-Me controller is reset or cleared. Insert a small tool into the access hole and press until you fix it. The controller will be reset. bbNOTE: The dial must be in the AUTO RUN position for the warning message to appear in display.bbNOTE: Electrical error (LEDs that do not blink)1. Error Alert Error Message Master Valve Short On Display Error Detection Solid Master Valve/Pump Station Short or SP-Me Controller features a built-in error detection that allows SOLID HIGH CURRENT to automatically generate mandatory station XWIRE programming errors or alerts that occur when an electrical short state is detected SHORTED. If an electrical error is detected, the irrigation of the affected station is canceled and the water supply proceeds to the next operating station in the program. The controller will try to re-water the affected station during the next scheduled watering. Successful watering clears the error condition associated with the station. Clear Electrical Error Warning: Turn the dial to the AUTO RUN position to display an error message on the display. To clear the alert, the right arrow key. 2929 ESP-Me Advanced User Manual Troubleshooting frequently asked questions the possible cause of the problem is the source of the program that does not supply water. Make sure there are no interruptions to the main water lines and are active, but the system does not mean that all other water lines are open and getting water. The wiring is loose or not connected properly. Connection. Make sure that the field wiring and the master valve or pump start relay wiring are securely connected by the controller and that the field wire is corroded or field. Damage. Check the wiring in the field for damage and replace it if necessary. Check the Allwater.gr wiring connection and replace it with a watertight loss of AC power. Splice the connector if necessary. In the event of a power outageThe 9-volt battery displays an AC message when NO power is detected. The system does not irritate, but the program displays the display. It remains active. The controller is connected to the check circuit breaker and its unit does not start a programmed schedule GFI outlet connected to the socket or an outlet source.do that is correctly connected to a wired or power source. to the GFI outlet. Check the power of the outlet or reset the circuit breaker. The connected rain sensor may be activated. If you set the rain sensor to bypass, the rain sensor will be ignored. If the watering is resumed, the sensor is operating normally and the connected rain sensor may not require further correction. It works fine. If it has just rained to dry the rain sensor or remove it from the controller terminaland replace it with a jumper wire, and the rain sensor is not connected, connect the two SENS terminals or set it to Bypass. The SENS terminal on the terminal block may not be found or damaged. This is a normal operation. This is a normal operation. ESP-Me does not consider interruption of irrigation due to rainfall Alarm state. 3030 ESP-Me Advanced User Manual Troubleshooting Electrical Problems (LED Lighting) Possible solution problems are blank and frozen power will not reach the controller. Make sure the main AC power supply is securely connected and that the oror is connected and does not work properly. The controller needs to be reset. Press the reset button. For more information, the Reset Button automatic error section.detection shows that an electrical surge may remove the controller for two minutes and the alert LED may interfere with the controller and cause problems again. Accepts programming and resumes normal operation. Short circuit or overload conditions Identify and repair wiring failures. See the LED flashing or solidly lit on the valve, master valve, or pump start relay for pump start. For more information, see Connect Illumination, but I don't see relay wiring. LCD Pump Start Relay section. Allwater.gr dial is not in the auto-execution position. Turn the dial to the auto-execution position. For more information, www.rainbird.com/controllersupport3131 ESP-Me Advanced User Manual Troubleshooting Rain + Birdt Conformity Declaration FCC Part 15 This equipment has been found to comply with the limitations that this equipment has been tested by Rain Bird Corporation, which has declared ESP-Me irrigation for Class B digital devices. In accordance with Part 15 of the FCC Rules.controller family, these european directives 2004/108/EC are designed to provide electromagnetic compatibility and reasonable protection against low voltage harmful interference in residential facilities. This device can generate, use, and radiate radio frequency energy, otherwiseDiego is installed and used according to the procedure, and signing wireless communication can cause harmful interference. However, there is no full name Ryan L. Walker to ensure that interference does not occur in certain installations. If position director equipment causes harmful interference in the reception of radios and televisions, Allwater.grRain Bird Corporation Rain Bird International. If it can be determined by turning off and turning on the equipment of Inc., users are recommended to correct the 970 W. Sierra Madre 145 North Grand Avenue interference with the following measures: Assa, California 91702 Glendra, CA 91741U. In the United States, change or reposition the direction of the receiving antenna. Increase the separation of the receiver from the 626-963-9311 626-963-9311 device. Connect the equipment to an outlet on a different circuit than the Rain Bird Europe Technical Service for the United States. Receiver is connected. 900 rue-Ampere, BP 72000, Canada only: Talk to a dealer or experienced radio/TV technician for help. 3 Changes or changes to FRANCE are not expressly approved by Rainbird (33) 04 42 24 44 6 www.rainbird.com 1 This product is FCC certified under test conditions, including the use of shielded I/O cables and connectors between system components. To comply with FCC regulations, shielded cables and connectors must be properly installed. Rain + Bird Rainbird Bird Corporation Rainbird Corporation Rainbird International Rainbird Europe SNC Rainbird France SNC6991 East South Point Road 1000 West Sierra Madre Avenue 900, Ampere Street, B.P.72000 900, Ampere Street, B.P. 72000 13792 Aix en Provence Sedex 3 13792 Aix-en-Provence Sedex 3 Tucson, AZ 85756 Azsa, CA 91702 United States France France France Tel: (33) 4 42 24 44 61 Tel: (33) 4 42 24 44 61 Tel: (33) 4 42 24 44 61 Tel: 501-5011 +1 (626) 963-9311 Fax: (33) 4 42 2 4 24 72 Fax: (33) 442 24 24 72 Fax: (520) 741-6522 Fax: +1 (626) 852-7343 Rainbird Turkey Iberica.S.A. Rainbird Deshrant GmbHLembers Velige AB Istikhal Mahasi, Polygono India. 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