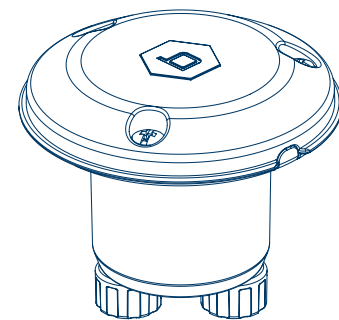




CONTROL AND MONITORING SYSTEM CMS Control Unit



MODEL NO: CMS-CU
PART NO: 04400



HYDRO-RAIN®

Contents

- Control Unit
- Mounting screws
- Instruction manual

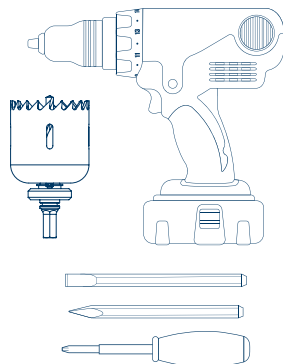
Required Tools/Items

- 6 AA batteries (Energizer® or Duracell®)
- 2.5 in. (64 mm) Hole saw
- Drill and driver bits
- Phillips screw driver
- DC latching solenoid(s) (for valve control)
- Phone with B-hyve Pro or B-hyve Ag app installed

NORTH AMERICA HELP:

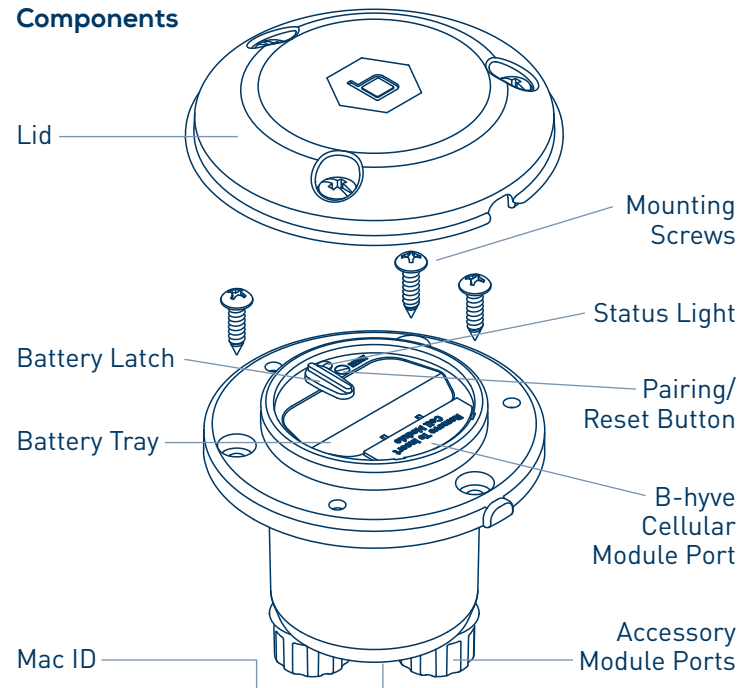
(888) Hydro-Rain
www.hydrorain.com

NOTE: For control from remote locations, a B-hyve Cell Module (sold separately) is necessary.



PN 04400-24 rB

Components



1 PAIR CMS CONTROL UNIT

Install the B-hyve Pro or B-hyve Ag app on your smart device

Download the B-hyve Pro or B-hyve Ag app from the Apple App Store or Google Play. The app will guide you through setting up your CMS Control Unit.

Select a location

Preferably, the CMS Control Unit should be mounted on the lid of the valve box containing the valve(s) or flow meter you wish to control/read. Whether mounted to a valve box or a wall (CMS-WM Wall Mount, sold separately), the CMS Control Unit should be mounted as close to the valve(s) or flow meter as possible.

Note: CMS Control Unit should be paired with a smart device at the installation location to ensure sufficient wireless signal or cellular strength. Placing the CMS Control Unit inside a valve box rather than mounting it to the valve box lid will diminish your wireless signal.

Remove the lid

Remove the lid of the CMS Control Unit by unscrewing the three screws on top using a phillips screw driver.

Install the batteries (not included)

The CMS Control Unit uses six AA batteries. (For best performance and battery life, use Energizer® or Duracell® batteries.)

Remove the battery tray by sliding the latch to the left. Insert the batteries. Reinsert the battery tray and slide the latch back to the right.

NOTE: The CMS Control Unit has non-volatile memory that retains programming when the batteries are removed or drained.

Install the B-hyve Pro Cellular Module (sold separately)

Remove the rubber lid covering the cellular module compartment.

Slide the B-hyve Cellular Module (sold separately) into the compartment until it is securely in place.

Connect the CMS Control Unit to the app

Open the B-hyve Pro or B-hyve Ag app on your smart device. In the app, go to the device list and tap the "+" button. You will, then, be guided through the set-up process.

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2 INSTALL THE CONTROL UNIT

Drill a hole in valve box lid

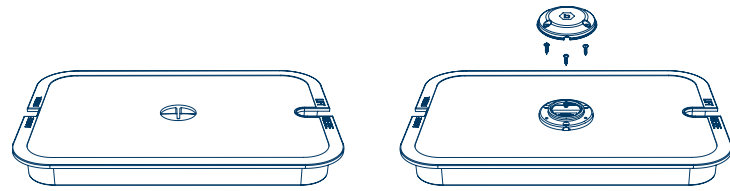
Using a 2.5 in. (64 mm) hole saw, drill a hole in the center of the valve box lid.

Mount CMS Control Unit

Ensure the lid of the CMS Control Unit is off and place it in the hole. Using a drill with a phillips bit, install the three mounting screws to secure the CMS Control Unit to the valve box lid.

Note: Do not attach the lid of the CMS Control Unit until after it has been paired with a mobile device.

Accessory Modules may now be connected.



3 INSTALL ACCESSORY MODULES (SOLD SEPARATELY)

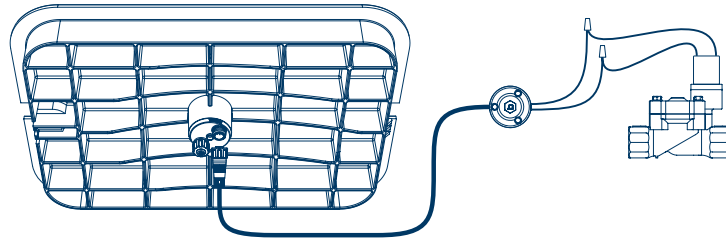
Ensure the B-hyve Pro or B-hyve Ag app is connected to the CMS Control Unit.

Using wire nuts, connect the control wires to a DC latching solenoid or flow meter wires.

Remove a cap from one of the CMS Control Unit's accessory ports.

Push the male connector on the accessory module into the port and tighten the connector nut.

Open the B-hyve Pro or B-hyve Ag app on your smart device and follow the step-by-step pairing process in the app.



RESET BUTTON

Function	Button Press
Wake/Display Status	Press button once
Factory Reset	Quickly press button 5 times

Device Status	LED Behavior
Ready for Pairing	Blinks blue every 5 seconds until paired or timeout
	Control Unit will time-out after 15 minutes if not paired
Connecting/Disconnected	Blinks white
Connected/Idle	Solid green
Low Battery	Blinks red
Rain Delay	Blinks yellow
Watering in Progress	Blinks green
Identify	Blinks magenta
Factory Reset	Rapidly blinks red until reset

SPECIFICATIONS

Battery Specifications:

CMS Control Unit requires 6 AA Energizer® or Duracell® batteries (not included).

Warning: Batteries must be removed from the CMS Control Unit before it is scrapped.

Rated input: 3.3-5V DC

IP67 Rating

Temperature Operating Range:

Operating: -4-140° F (-20-60° C)

Storage & transport: -4-140° F (-20-60° C)

Humidity Operating Range:

Operating: 0-100%

Storage & transport: 0-90%



EU & UKCA Declaration of Conformity

Pro-Mark, LLC
845 Overland Rd., NSL, UT 84054 USA

Declares under our sole responsibility, that the product: CMS Control Unit

Complies with the following:
European Directives 2014/53/EU and UKCA Radio Equipment Regulations 2017, SI 2017:1206 (as amended by SI 2019:696) with reference to the following standards:

ETSI EN & EN 300 220-1 V3.1.1 (2017-02)

ETSI EN & EN 300 220-2 V3.2.1 (2018-06)

ETSI EN & EN 300 328 V2.2.2 (2019-07)

BS EN & EN 50665:2017

ETSI EN & EN 301 489-1 V2.2.3 (2019-11)

ETSI EN & EN 301 489-3 V2.1.2 (2021-03)

ETSI EN & EN 301 489-17 V3.2.4 (2020-09)

BS EN & EN 55032:2015/A11:2020,

BS EN IEC & EN IEC 61000-3-2:2019/A1:2021

BS EN & EN 61000-3-3:2013/A1:2019

BS EN & EN 55035:2017/A11:2020

BS EN & EN 60730-1:2016

BS EN & EN 60730-2-7:2020

FCC & ICID STATEMENT:

This device complies with Part 15 of the FCC Rules and Industry Canada license exempt RSS standards. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Warning: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

Note: 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 the 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

This device meets the FCC and IC requirements for RF exposure in public or controlled environments. The end user is advised to maintain a distance of 20 cm from the controller and any personnel to ensure compliance with RF exposure regulations. This Class B digital apparatus complies with Canadian ICES-003

DÉCLARATION DE FCC ET L'IC:

Cet appareil est conforme à la section 15 de la Réglementation de la FCC et la norme RSS d'Industry Canada. Son fonctionnement est soumis aux deux conditions suivantes:

(1) cet appareil ne doit pas causer d'interférences nuisibles, et (2) cet appareil doit tolérer toutes les interférences, dont les interférences pouvant causer un fonctionnement non désiré. Cet appareil numérique de classe B est conforme à la norme canadienne ICES-003.

Remarque: cet appareil été testé et déclaré conforme aux limites d'exposition pour les appareils numériques de classe B, selon la section 15 de la Réglementation de la FCC. Ces limites sont conçus pour fournir une protection raisonnable contre les interférences nuisibles dans une installation résidentielle. Cet appareil produit, utilise et peut émettre de l'énergie radio fréquence et, si elle n'est pas installée et utilisée conformément aux instructions, peut causer des interférences nuisibles aux communications radio. Cependant, il n'est pas garantie que des interférences ne se produisent pas dans une installation particulière. Si cet appareil cause des interférences gênantes à la réception d'un signal radio ou de télévision, ce qui peut être déterminé en allumant et en éteignant l'appareil, l'utilisateur peut corriger les interférences en suivant une des mesures suivantes :

- Réorientez ou repositionnez l'antenne de réception.
- Augmentez la distance entre l'appareil et le récepteur.
- Branchez l'appareil dans une prise sur un circuit différent du circuit sur lequel le récepteur est branché.
- Consulter le revendeur ou un technicien radio/TV expérimenté pour obtenir de l'aide.

Cet appareil est conforme aux exigences de la FCC et de l'IC concernant l'exposition aux ondes dans un environnement public ou contrôlé. Il est conseillé à l'utilisateur final de maintenir une distance de 20 cm du contrôleur pour assurer la conformité aux réglementations d'exposition RF. Information de conformité pour le Canada