

Model VDC05

Valve Driver Cartridge

The Valve Driver Cartridge is used to drive an external solenoid valve (supplied by the user). The VDC-05 is inserted in the valve cartridge slot of a WeedSeeker 650/655 sensor. The output can be used to open an external valve and activate an external system, such as a spray nozzle or bank of spray nozzles.

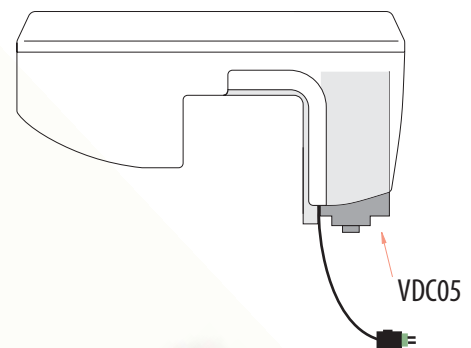
Combining the chlorophyll detection capability of the WeedSeeker sensor with the ability to drive valves and relays makes the WeedSeeker technology useful in many other agricultural applications. For example, a VDC05 can activate:

- ◆ An orchard or vineyard sprayer when a tree or vine is detected
- ◆ A foliar nutrient or fungicide spray system when a tree or vine is detected
- ◆ A fertilizer ground application system when a tree or vine is detected
- ◆ A valve/nozzle combination capable of spraying wettable powders

Applications

- ◆ Apply water-based chemicals for agricultural use
- ◆ Activate electromechanical implements
- ◆ Counting & Data Logging
- ◆ Delayed Spray Activation
- ◆ Multi-valve control

Model 650/655 Sensor



Valve Driver Cartridge

Specifications

900-1-028

Electrical

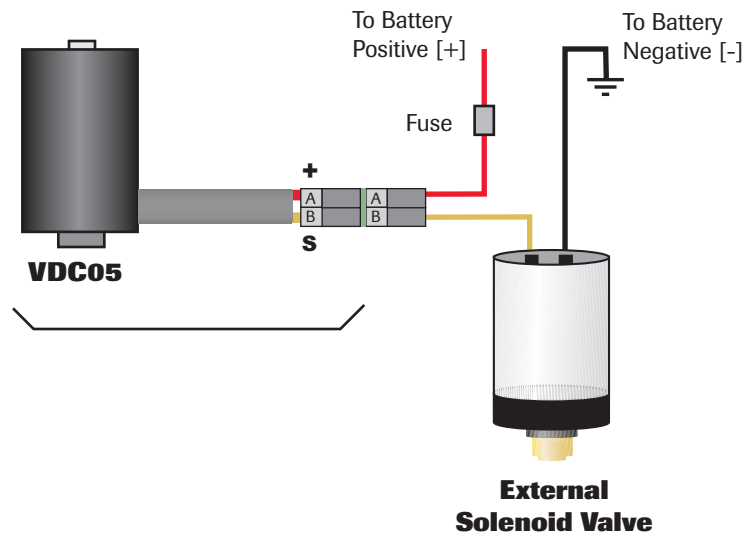
Output Drive Voltage	12VDC nominal (10 - 15 VDC)
Output Current	3.5A max continuous, 5.0A <50% duty cycle

Mechanical

Dimensions	L: 2" W: 2.25" H: 4.5" (51 x 57 x 114 cm)
Weight	0.26 lb (118g)

Connect the external solenoid valve as shown in the figure.

An in-line fuse for overload protection is recommended for the operating current of the solenoid. Many commonly used solenoid valves have a nominal operating current of 1A. For a 1A valve, a 3A or 5A fuse is suggested. Each solenoid valve must have a good ground connection and get their 12V signal directly from the 12V supply (not through the Controller).



Related Components

Solenoid Valve Kit, 1GPM, includes mounting hardware	900-1-053
Connector Kit	900-1-155

Compatible with all WeedSeeker sensors.