

Underground Switch Handheld Controller with UAD Motor

Application

The Cleaveland/Price underground switch handheld controller is designed to enable customers to electrically operate SF₆ and vacuum switches from a safe location outside of the switch vault.

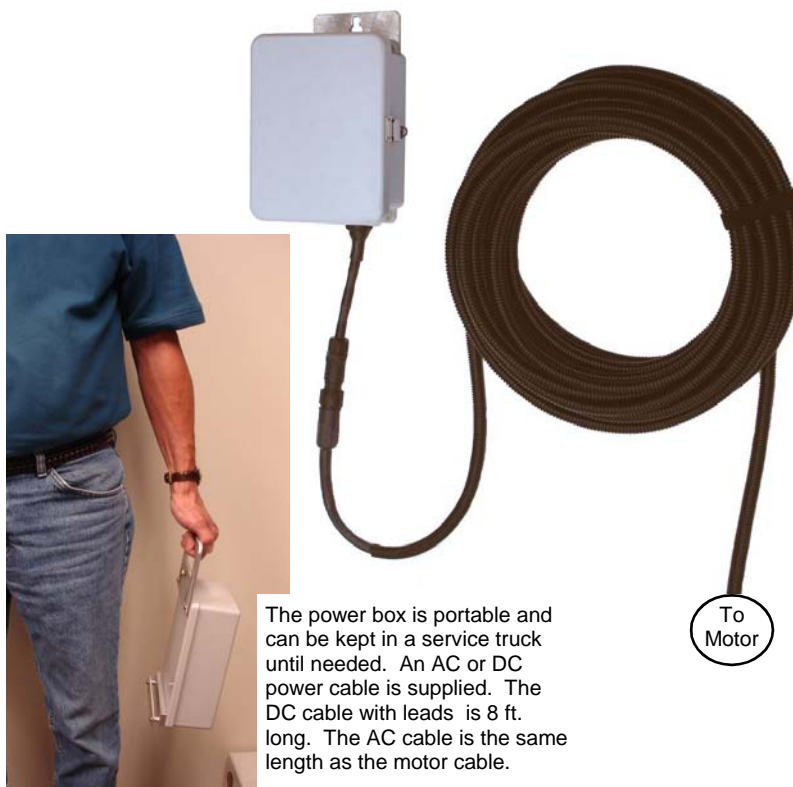
The controller installation consists of a UAD motor, a handheld control box, a portable power box, a motor cable, and a power cable. All components are submersible and cable connections are watertight. The controller operates from any 12 volt battery source - just clip the power leads to a truck battery. A power cable to operate from an in-vault AC source is available as an alternate to battery power.

The controller is designed for easy setup. Switch open and closed positions are set via the travel adjustment controls on the handheld controller. Open and close travel set points are stored in non-volatile memory after the correct travel has been set.

A sealed-in control circuit ensures full opening and closing of the switch. Operation time is approximately 5 seconds. The control circuit will interlock with an SF₆ pressure switch to prevent operation if there is insufficient SF₆ pressure in the switch.

The motor unit is adaptable to any manufacturer's underground loadbreak (non-fault interrupting) switch.

The handheld controller is also designed to be upgradeable for SCADA applications. If the utility desires to integrate the switch into their SCADA system, both the motor and the motor cable assembly can be used. The user only needs to disconnect the cable from the handheld controller and connect the same cable into the bottom of a UAD controller that can be pad mounted or vault mounted. The handheld controller can then be moved to another location.



The power box is portable and can be kept in a service truck until needed. An AC or DC power cable is supplied. The DC cable with leads is 8 ft. long. The AC cable is the same length as the motor cable.

Unit weight is 5 lbs.

The handheld control box is stored within the vault near the vault entrance. The handheld controller features

- Submersible control box with padlockable door
- Watertight cable connections
- Open / Close control switch
- Open and Close indicating lights
- Set open and close position control buttons
- 45 ft. standard length motor cable
- Hanger eye for in-vault controller storage
- Customer selected DC or AC power cord



The control box is removed from the vault and attaches easily to the power box. Instructions for making the connection are on the inside of the control box door.

Combined power box and control box weight is 11 lbs.



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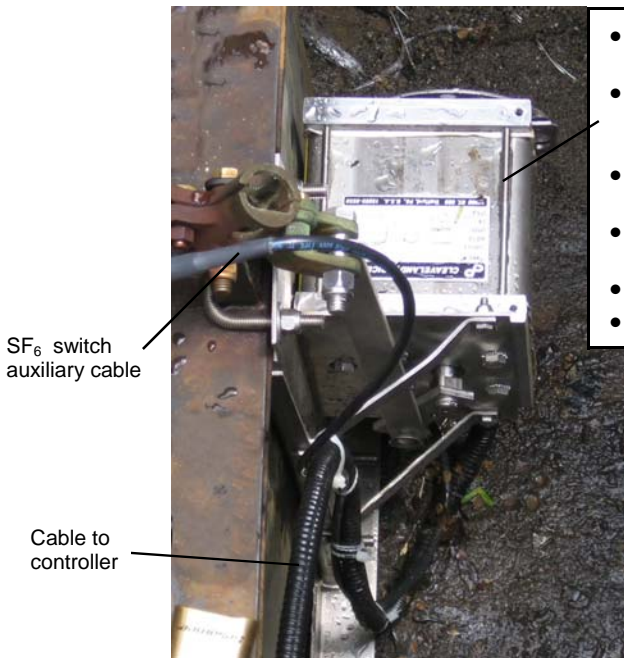
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Handheld Controller Features



Control panel shown with travel set cover removed. The handheld control uses the same simple travel set method as the full-featured UAD controller. Open and close travel limits are set by pushing two buttons when the switch is in the opened and closed positions. There are no auxiliary switch cams to set. LEDs indicate the switch open and switch close positions.

UAD Motor Features



- Adaptable to any switch
- Submersible stainless steel motor enclosure
- Watertight cable connections
- Provision for manual operation
- Padlock point
- Mechanical stops

UAD motor retrofitted to a Joslyn SF₆ switch

Ordering Information

The following information is needed at time of quotation to supply a controller that will meet your needs:

- Switch manufacturer and model
- Power source selection
 - 12 VDC
 - In-vault AC source
- If DC power source selection is made, specify DC power cord length if other than 8 ft. long
- Motor control cable if other than 45 ft. long