



A-dec® LED Push-Button Controls and Remote Monitoring Hub

INSTALLATION GUIDE

Product Models and Versions Covered in This Document*

Models	Versions	Description
SC3/SC5/SC7/SC10/SC12	n/a	Air Compressor
WS1/WS1.5/WS2	n/a	Analog Water Control Valve
DV5/DV7/DV10/DV12	n/a	Dry Vacuum

**Equipment shown in this document may include optional features or accessories. Some product models, versions, and options in this document may not be available in certain regions.*

What's New in This Release

This release introduces revised LED push-button control wiring. See “Install the LED Push-Buttons Controls” on page 2.

Before You Begin

- The LED push-button controls and the remote monitoring hub are most commonly installed together, but both can be installed as stand-alone components. If you are only installing a remote monitoring hub, see “Connect a Remote Monitoring Hub” on page 5.
- Before installing LED push-button controls:
 - Route 18 gauge low-voltage wiring from the mechanical room to a wall box where the buttons will be installed. A standard single- or double-gang wall box can be used, depending on the size of the push-button faceplate.
 - Ensure that the low voltage push-button wiring is not routed near high voltage mains wiring. Check with local building and code authorities about installation requirements specific to your location.

Recommended Tools

- 7/8" combination wrench
- Wire strippers
- Small standard screwdriver

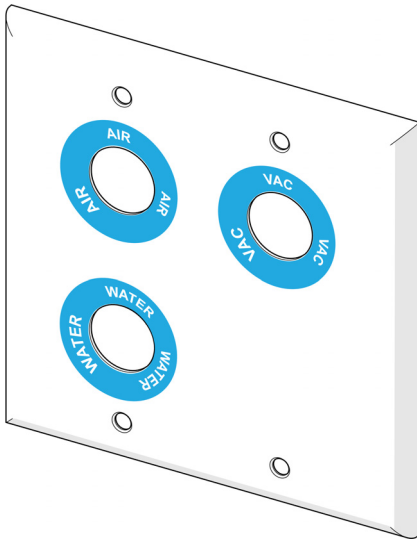
Important Information



WARNING Only use the remote switch or the switch on the compressor or vacuum to operate the compressor or vacuum. Do not run/stop the compressor or vacuum by turning the main power on/off.

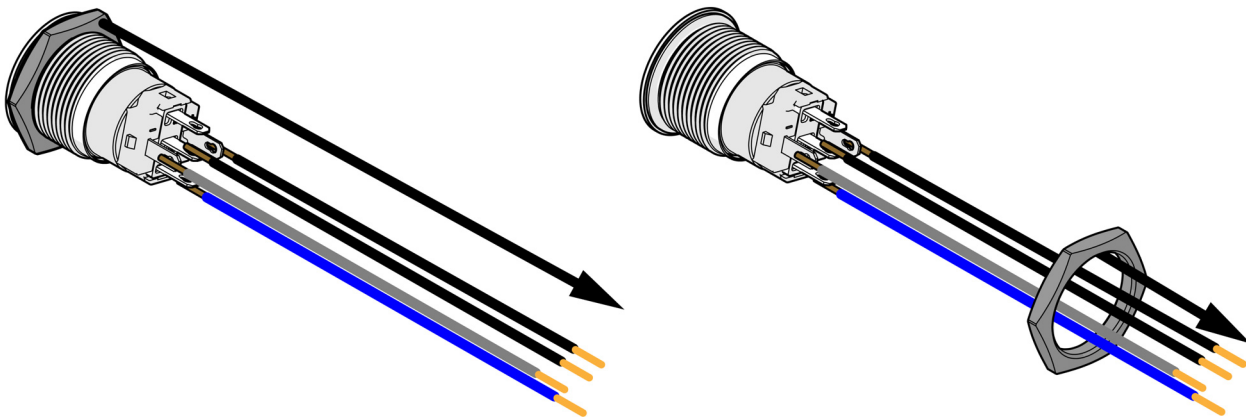
Prepare the Faceplate

1. Clean the faceplate with rubbing alcohol or soap and water and dry thoroughly.
2. Apply the included AIR, VAC, and WATER stickers to the faceplate to identify the push-buttons.

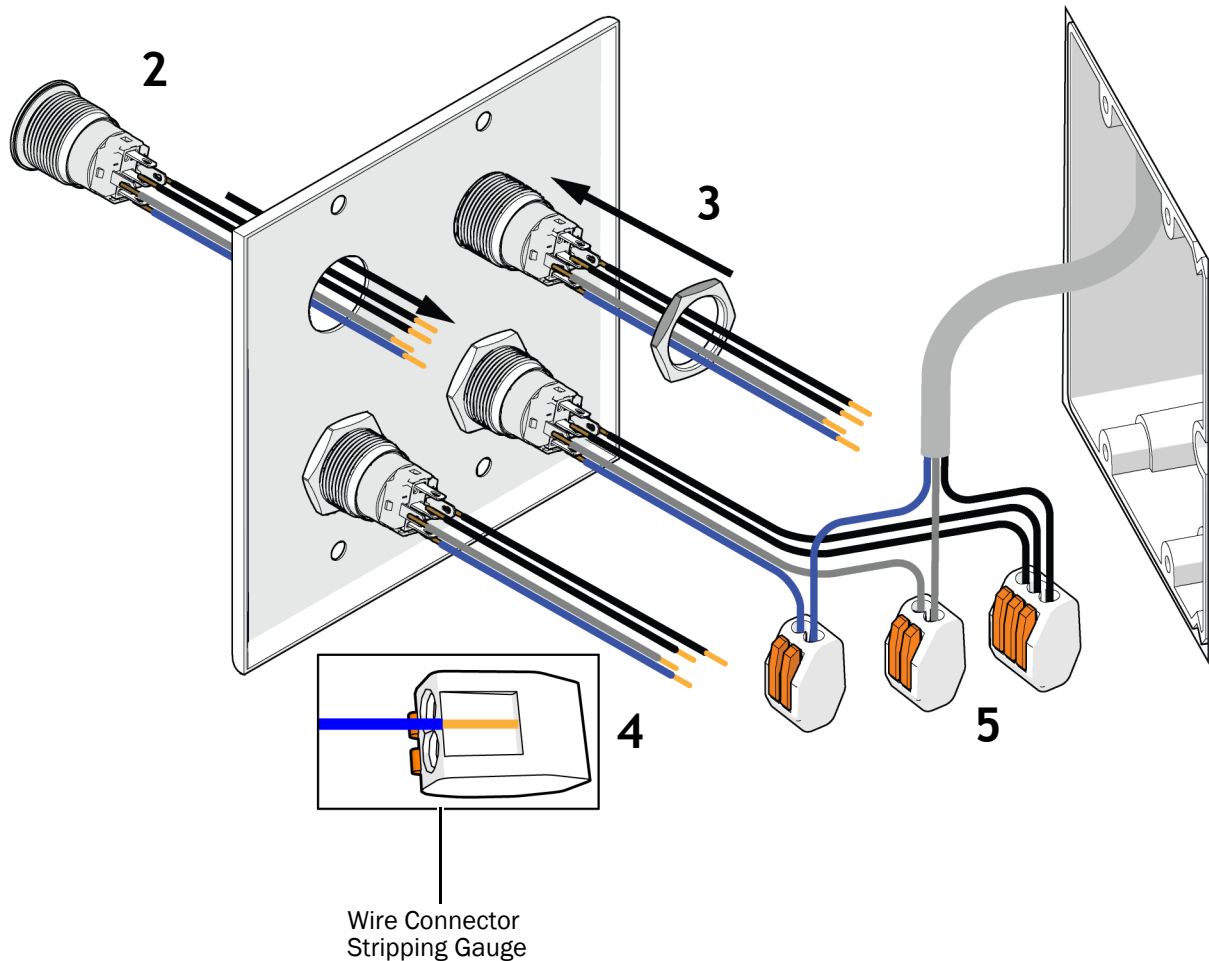


Install the LED Push-Buttons Controls

1. Unscrew the nut from the push-button.
2. Slide the nut away from the push-button and off the wires.



3. Feed the push-button wires through the faceplate and thread the push-button into place. The push-button bezel should be flush with the faceplate.
4. Secure the push-button to the faceplate with the nut. If needed, use a 7/8" combination wrench to snug the nut to the back of the faceplate.
5. Use wire strippers to strip insulation from the ends of the low-voltage wires coming from the wall box. A gauge on the included wire connectors indicates the amount of insulation to strip (approximately 3/8").
6. Use wire connectors to connect the push-button wires to the wires coming from the wall box, matching the colors. Use a 2-position wire connector for the blue and gray wires and a 3-position wire connector for the black wires.



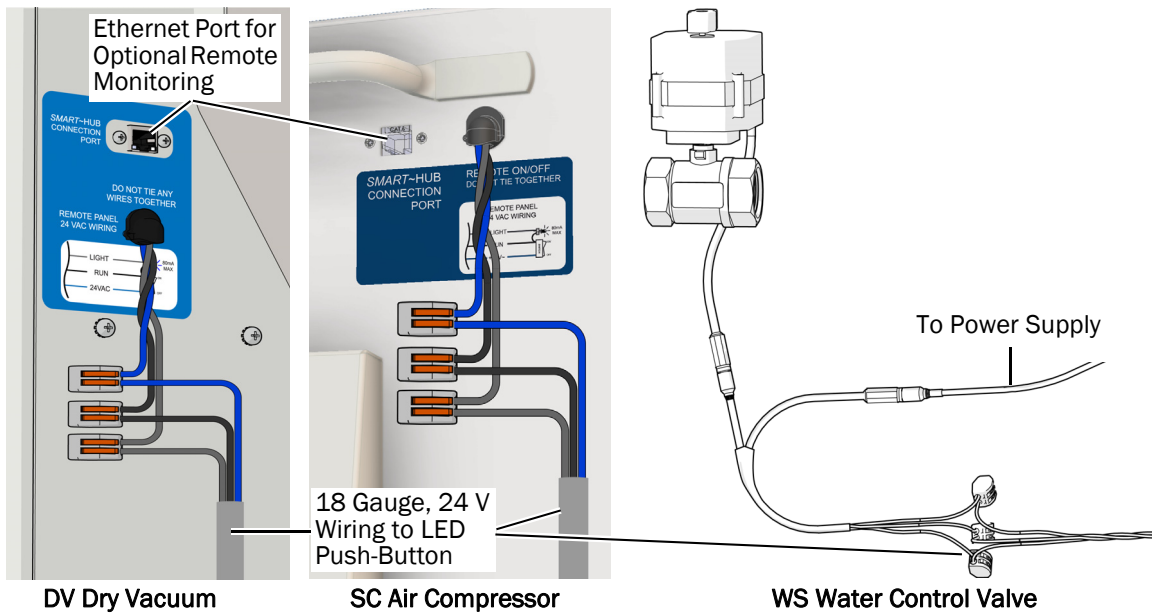
7. Use a small standard screwdriver and the supplied stainless steel screws to attach the push-button faceplate to the wall box. Do not over-tighten the screws or the faceplate will deform.

Connect the Mechanical Room Equipment to Low Voltage Wiring



CAUTION Failure to connect the wires correctly can lead to equipment damage. The wire for the push-button LED carries voltage, and if connected in the wrong order it will send voltage back into the equipment.

1. Use the included wire connectors to connect the mechanical room equipment to the low voltage wiring from the push-buttons. If you are connecting push-buttons to equipment from a manufacturer other than A-dec, see the table below. Verify the wire color coding with the manufacturer prior to installation.



Manufacturer	+24 V	-Light	Run
A-dec	Blue	Gray	Black
Air Techniques	Yellow	Brown	Orange
Midmark	Blue	White	Red
Dental EZ	Black	Brown	Yellow
Matrix	Red	Blue	White
Apollo	Blue	White	Red
Tech West	Blue	White	Red

2. Set the master power switch to the REMOTE position on the dry vacuum and air compressor. The water control valve is always in remote control mode.

Connect a Remote Monitoring Hub

The remote monitoring hub can be used alone for monitoring mechanical room equipment or in conjunction with LED push-button controls.

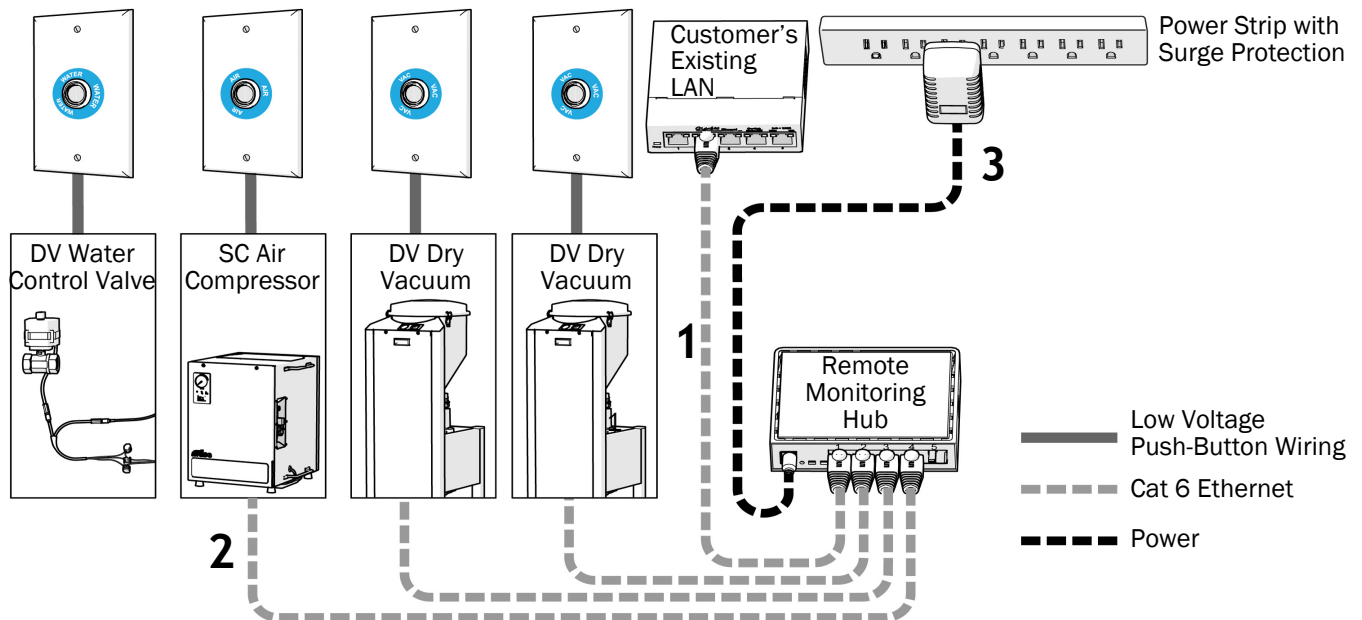


CAUTION Ensure that the Ethernet cable is routed with a minimum of 2" of separation from the AC mains wiring and any power conduits. Do not drape it across other equipment/light fixtures. Do not bend the cable excessively. Ensure that there is ample slack. Use the correct type of RJ45 connectors when terminating the cable. Do not exceed 100 ft (30.5 m) in length. Use a Cat 6 or better Ethernet cable.



NOTE The customer's network must allow Internet access on Port 80 and have a DHCP server to assign the remote monitoring hub an IP address.

1. Run an Ethernet cable from the customer's local area network (LAN) to the port labeled Internet / PoE on the remote monitoring hub.
2. Run an Ethernet cable from the SMART~HUB CONNECTION PORT on a vacuum or compressor to one of the equipment ports (2-5) on the remote monitoring hub. If connecting equipment installed in tandem, each piece of equipment needs its own Ethernet connection to the remote monitoring hub.
3. Connect the remote monitoring hub power supply to the power jack and plug it into a power strip with surge protection. Remote monitoring is now active.
4. Call A-dec customer service at the number below to confirm connectivity and register equipment. Have the following information available:
 - Serial numbers
 - Office name and address
 - Emergency contact name and telephone number



LED Push-Button and/or Remote Monitoring Hub Connections

Regulatory Information and Warranty

For required regulatory information and the A-dec warranty, see the *Regulatory Information, Specifications, and Warranty* document (p/n 86.0221.00) available in the Resource Center at www.a-dec.com.



For quick access to this document online, scan, tap, or click this QR code, which points to a-dec.com/regulatory-guide.

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