

Universal Power Relay Installation and Operation



Made in the
United States of America



Figure 1. Desco 19352 Universal Power Relay

Description

The Desco Universal Power Relay controls 100-240 VAC power to workbenches, hand tools, and other electronic devices depending on the status of select Desco Europe continuous monitors and ionisers. A single logic input signal controls one high-current SPDT AC relay. This one relay trigger signal switches two AC outlets simultaneously using a single-pole double-throw relay. One outlet is normally on, and the other is normally off. All outlets are universal international sockets and protected against surges and overloads.

The Universal Power Relay and its accessories are available as the following item numbers:

Item	Description
19352	Universal Power Relay
19353	Interface Cord, Mono Plug to Mono Plug, 1.8 m
19354	Interface Cord, Mono Plug to PicoBlade, 1.8 m
200220	Power Cord, IEC C13, Europe Plug, 2 m
200225	Power Cord, IEC C13, UK Plug, 1.8 m

The Universal Power Relay is compatible with the items listed below. One interface cord and power cord is required per setup.

Item	Description	Interface Cord No.
19656	Dual Operator Monitor	19353
770067	WS Aware Monitor	19354
770068	WS Aware Monitor	19354
770141	Ion Pro™ Benchtop Ioniser	19353

Packaging

- 1 Universal Power Relay
- 1 3M™ Dual Lock™ Fasteners, 51 mm x 25 mm

Features and Components

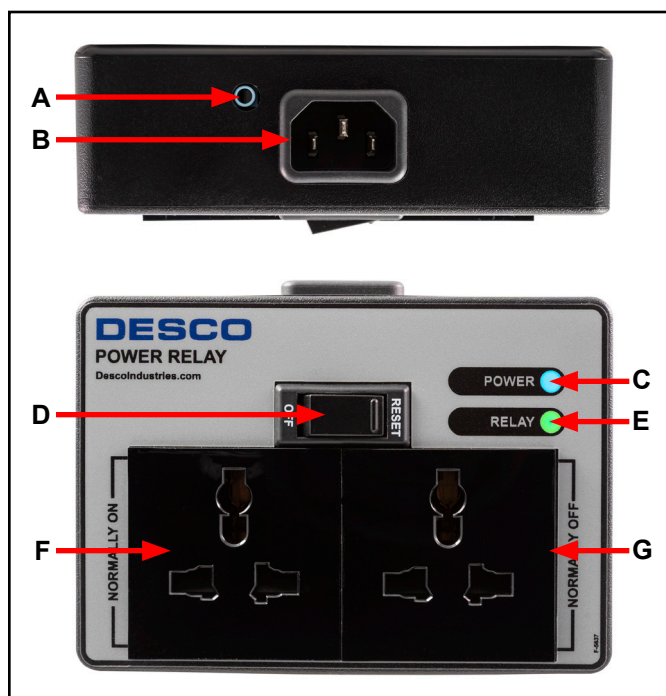


Figure 2. Universal Power Relay features and components

A. Interface Connector: Use the interface cable to connect the continuous monitor to this connector.

B. Power Inlet: Connect the power cord here.

C. Power LED: Illuminates blue when the Universal Power Relay is powered.

D. Power Switch: Rock to RESET to turn on the Universal Power Relay. Rock to OFF to turn off the Universal Power Relay.

E. Relay LED: Illuminates green when the internal relay switch is activated.

F. Normally On Receptacle: Remains on until a pass signal is received from the paired continuous monitor or ioniser.

G. Normally Off Receptacle: Remains off until a pass signal is received from the paired continuous monitor or ioniser.

Installation

1. Determine the mounting location of the Universal Power Relay. The included dual lock fasteners may be used to secure it onto a surface.
2. Connect the power cord to the power inlet located on the top side of the Universal Power Relay.
3. Connect the opposite end to an appropriate AC outlet.
4. Use the 19353 interface cord if pairing the Universal Power Relay to the Dual Operator Monitor or Ion Pro™ Benchtop Ioniser. Use the 19354 interface cord if pairing the Universal Power Relay to the WS Aware Monitor.
5. Connect the interface cord to the interface connector on the top side of the Universal Power Relay. Connect the opposite end to the continuous monitor or ioniser. See figures 3-6 for the location of the power relay port on each device.
6. Connect the power cord of continuous monitor or ioniser to an appropriate AC outlet. If using a continuous monitor, it will automatically power on. If using an ioniser, toggle the power switch to the ON position.
7. Connect the power cord of the external electronic device to the NORMALLY OFF receptacle on the Universal Power Relay.
8. Toggle the power switch to the RESET position to power the Power Relay on.
9. If using a continuous monitor, this setup will power the external electronic device when an operator is connected to the continuous monitor and no alarms are reported. If using the Ion Pro™ Benchtop Ioniser, this setup will power the external device when the ioniser is ON and not alarming.



Figure 3. Power relay connector on the WS Aware Monitor



Figure 4. Power relay connector on the Ion Pro™ Benchtop Ioniser



Figure 5. Power relay connector on the Dual Operator Continuous Monitor

Operation

USE WITH CONTINUOUS MONITORS

1. Fit the wristband snugly onto the wrist.
2. Snap the wrist cord to the wristband.
3. Plug the wrist cord into the continuous monitor's operator jack. The green operator LED will illuminate. This indicates that the operator is properly grounded. The Universal Power Relay will change state and its RELAY LED will illuminate green when the operator passes and no failures occur.
4. If this does not happen, examine the wrist cord for continuity or damage and the wristband to ensure that it fits securely. If the skin is dry, apply an approved dissipative hand lotion such as MENDA Reztore® ESD Hand Lotion.
5. If using the Dual Operator Monitor, touch the monitor's park switch or ParkSnap™ when leaving the workstation. The monitor's audible alarm will disable for approximately 8 seconds. Use this time to disconnect the wrist cord from the wristband and attach it to the ParkSnap™ without sounding a false alarm. Upon returning to the workstation and disconnecting the wrist cord from the ParkSnap™, the monitor will provide approximately 8 seconds for the operator to reconnect the wrist cord to a worn wristband before sounding the monitor's alarm.

USE WITH IONISERS

1. Power the ioniser ON.
2. The Universal Power Relay will change state and its RELAY LED will illuminate green when the ioniser is powered and within its balance and discharge time alarm limits.



Figure 6. Using the Universal Power Relay with the WS Aware Monitor



Figure 7. Using the Universal Power Relay with the Ion Pro™ Benchtop Ioniser

Specifications

Input Voltage and Frequency	100-240 VAC, 50/60 Hz
Output Voltage	100-240 VAC
Max Load	5 A
Input Connector	IEC C14
Output Connector	2x Universal Socket
Outlet Types	1x Normally OFF 1x Normally ON
Dimensions	127 mm x 89 mm x 38 mm
Weight	300 g
Operating Temperature	10 to 35° C
Environmental Requirements	5 to 95% RH non-condensing Indoor use only
Country of Origin	United States of America

Limited Warranty, Warranty Exclusions, Limit of Liability and RMA Request Instructions

See the Desco Europe Warranty -

DescoEurope.com/Limited-Warranty.aspx