

ARGO ARM-6P

Argo Six Zone Control Switching Relay

Model: ARM-6P

Brand: ARGO

PRODUCT OVERVIEW

The Argo ARM-6P is a robust Six Zone Control Switching Relay designed for efficient management of heating zones. This unit features an electronic fuse with auto-reset capability and a powerful 30VA transformer, capable of handling up to 15 zones when used with compatible add-on modules. Its double-sided printed circuit board construction ensures reliability, having been 100% factory tested.

Key features include separate isolated switch and ZC/ZR relays to protect the boiler aquastat, a diagnostic light for easy troubleshooting, switchable priority, and a priority safety timer to ensure all zones receive heat and prevent freeze-ups. A 5-second time delay for boiler shut-off is also integrated. The unit operates on 120V/60Hz power.



Image: The Argo ARM-6P Six Zone Control Switching Relay, showing its black casing and clear window for viewing internal components.

INSTALLATION AND SETUP

Important: Installation of the Argo ARM-6P should only be performed by a qualified electrician or HVAC technician. Ensure all local electrical codes and safety regulations are followed. Disconnect power to the heating system before beginning installation.

Mounting

Select a suitable location near the boiler or heating system, ensuring adequate ventilation and protection from moisture. Securely mount the relay unit to a wall or panel using appropriate fasteners.

Wiring

The ARM-6P is designed for 120V/60Hz operation. Connect the main power supply to the designated terminals. Connect the thermostat wires for each zone to the corresponding zone terminals. Ensure proper polarity for all connections. The unit features separate isolated switch and ZC/ZR relays for boiler aquastat protection.

The 30VA transformer is robust enough to handle up to 15 zones, which can be achieved by integrating Plug-in, Add-on Modules (AD-1 or AD-4) if more than six zones are required. Refer to the wiring diagram provided with the physical product for detailed connection instructions.



Image: The internal circuit board of the Argo ARM-6P relay, showing the various terminals and electronic components for zone control.

OPERATING INSTRUCTIONS

Power On

Once installation is complete and verified, restore power to the heating system. The ARM-6P will power on. The electronic fuse will auto-reset if a temporary overload occurs.

Zone Control

Each connected thermostat will signal its respective zone on the ARM-6P. When a thermostat calls for heat, the corresponding relay on the ARM-6P will activate, sending a signal to the boiler.

Switchable Priority

The ARM-6P features a switchable priority setting. This allows a designated zone (e.g., domestic hot water) to take precedence over other heating zones when calling for heat. Consult the physical product's internal settings or manual for how to configure this feature.

Priority Safety Timer

To prevent other zones from being without heat for extended periods, the unit includes a priority safety timer. This timer ensures that even if a priority zone is continuously calling for heat, other zones will receive heat every 30 minutes. This also helps prevent freeze-ups in non-priority zones.

Boiler Shut-off Delay

A 5-second time delay is incorporated for boiler shut-off. This feature helps to optimize boiler operation and prevent short cycling.

MAINTENANCE

The Argo ARM-6P is designed for reliable, maintenance-free operation. Its double-sided printed circuit board construction and 100% factory testing contribute to its durability.

- **Periodic Inspection:** Annually, or as part of routine HVAC system maintenance, visually inspect the unit for any signs of damage, loose connections, or excessive dust accumulation.
- **Cleaning:** If dust is present, gently clean the exterior of the unit with a soft, dry cloth. Do not use liquid cleaners or solvents. Ensure power is disconnected before cleaning.
- **Electronic Fuse:** The unit features an auto-resetting electronic fuse, eliminating the need for manual fuse replacement.

TROUBLESHOOTING

The ARM-6P includes a Relay Diagnostic Light, which can assist in identifying operational issues. This light is easily visible through the window on the cover.

Symptom	Possible Cause	Action
Unit has no power / Diagnostic Light is off	No power supply; tripped circuit breaker; loose wiring connection.	Check power supply to the unit. Verify circuit breaker is on. Inspect all wiring connections for tightness. Consult a qualified technician if issue persists.
One or more zones not heating	Thermostat issue; zone valve/pump issue; wiring fault to zone; relay malfunction.	Check the thermostat for the affected zone. Observe the Relay Diagnostic Light for the specific zone to see if it's signaling a call for heat. Verify wiring to the zone. If the light indicates a call for heat but no heat is delivered, inspect the zone valve or pump.
Boiler short cycling	Incorrect boiler settings; issue with boiler aquastat; rapid heat calls.	Ensure the 5-second time delay for boiler shut-off is functioning. Consult boiler manual for optimal settings. The ARM-6P's isolated switch and ZC/ZR relays protect the aquastat, but external issues may exist.

For complex issues or if troubleshooting steps do not resolve the problem, contact a certified HVAC technician or the manufacturer's support.

SPECIFICATIONS

Model: ARM-6P

Brand: ARGO

Input Voltage: 120V / 60Hz

Transformer Rating: 30VA

Number of Zones: 6 (expandable up to 15 with AD-1 or AD-4 add-on modules)

Contact Current Rating: 6 Amps

Fuse Type: Electronic, Auto-Reset

Construction: Double-sided printed circuit board

Features: Relay Diagnostic Light, Switchable Priority, Priority Safety Timer (30 min), 5-second boiler shut-off delay, Isolated switch & ZC/ZR relays.

Item Weight: 2 Pounds

WARRANTY AND SUPPORT

Information regarding the specific warranty terms for the Argo ARM-6P Six Zone Control Switching Relay was not available in the provided product data. For detailed warranty information, please refer to the documentation included with your product or visit the official ARGO manufacturer's website.


For technical support, installation assistance, or service inquiries, please contact ARGO customer service or a certified HVAC professional.






OFFICIAL PRODUCT VIDEOS

No official product videos from the seller were available in the provided data for the Argo ARM-6P Six Zone Control Switching Relay.

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Related Documents - ARM-6P

	<p>Argo Multi Split Air Conditioners R32 WiFi User and Installation Manual</p> <p>Comprehensive user and installation manual for Argo Multi Split Air Conditioners featuring R32 refrigerant and WiFi connectivity. Covers installation, operation, safety precautions, maintenance, and disposal for models like ARGO DUAL, TRIAL, QUADRI, and PENTA.</p>
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 <p>MULTISPLIT AIR CONDITIONERS MAIN FEATURES</p> <p>Diagram showing the main features of Argo Multisplit Air Conditioners, including energy efficiency, quiet operation, and various control options.</p>	<p>ARGO MULTISPLIT AIR CONDITIONERS: Features, Specifications, and Unit Matchings</p> <p>Comprehensive guide to ARGO MULTISPLIT AIR CONDITIONERS, detailing main features, low ambient cooling/heating capabilities, outdoor and indoor unit specifications, and unit matching information for cooling and heating modes.</p>
 <p>ARGO DELUXE SINGLE SPLIT AIR CONDITIONERS R32</p> <p>USER MANUAL and INSTALLATION GUIDE</p> <p>Diagram showing the indoor and outdoor units of the Argo Deluxe Single Split Air Conditioners R32 series.</p>	<p>ARGO DELUXE Single Split Air Conditioners R32 - User Manual and Installation Guide</p> <p>This comprehensive guide provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the ARGO DELUXE series single split air conditioners. It covers safety precautions, system components, remote control usage, Wi-Fi connectivity, and technical specifications for models using R32 refrigerant.</p>
 <p>TERMOVENTILADOR CERÁMICO DIGITAL BOBO</p> <p>Diagram showing the Argo Bobo Digital Ceramic Fan Heater.</p>	<p>Termoventilador Cerámico Digital Argo Bobo - Manual de Usuario e Instrucciones de Seguridad</p> <p>Manual de usuario completo para el termoventilador cerámico digital Argo Bobo. Incluye instrucciones de seguridad, guía de operación, mantenimiento, especificaciones técnicas y información de desecho.</p>
 <p>ARGO DRY PURY EVO 11-13 DEHUMIDIFICATORE</p> <p>Diagram showing the Argo Dry Pury Evo 11-13 Dehumidifier.</p>	<p>Argo Dry Pury Evo 11-13 Deumidificatore: Istruzioni per l'Uso</p> <p>Manuale di istruzioni per il deumidificatore Argo Dry Pury Evo 11-13. Include informazioni su funzionamento sicuro, installazione, manutenzione e risoluzione dei problemi per garantire prestazioni ottimali.</p>
 <p>ARGO TECH TOWER TERMOVENTILADOR CERÁMICO DIGITAL</p> <p>Diagram showing the Argo Tech Tower Digital Ceramic Fan Heater.</p>	<p>Argo Tech Tower Digital Ceramic Fan Heater: User Manual, Safety, and Operation</p> <p>Complete user guide for the Argo Tech Tower digital ceramic fan heater. Includes detailed safety instructions, operating procedures, assembly, maintenance tips, and technical specifications for optimal use.</p>