Merten 565495

Merten ARGUS 565495 Radio Module for ARGUS 220 Motion Detector

Model: **565495** | Brand: **Merten**

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your Merten ARGUS 565495 Radio Module. This module is designed to wirelessly connect multiple ARGUS 220 motion detectors, enabling synchronized operation and enhanced security system functionality. Please read this manual thoroughly before proceeding with installation or use.

2. Safety Information

- Always disconnect power before installing or servicing the device.
- Installation should only be performed by qualified personnel in accordance with local electrical codes and regulations.
- Do not expose the device to moisture, extreme temperatures, or corrosive environments.
- Ensure all connections are secure and properly insulated.
- This device is intended for indoor use only.

3. Package Contents

The Merten ARGUS 565495 Radio Module package typically includes:

- 1x Merten ARGUS 565495 Radio Module

Note: Additional components such as ARGUS 220 motion detectors, wiring, or mounting hardware are sold separately and are not included with this radio module.

4. Product Overview

The Merten ARGUS 565495 Radio Module acts as a central communication unit for ARGUS 220 motion detectors. It features an integrated transmitter and receiver, enabling bidirectional communication. When a motion event is detected by one ARGUS 220 unit, the radio module transmits this information to all other connected and 'learned' motion detectors, allowing for synchronized actions such as lighting control.

Figure 1: Merten ARGUS 565495 Radio Module. This image shows the compact design of the radio module, typically integrated within a compatible ARGUS 220 motion detector housing.

5. Setup and Installation

The radio module is designed for integration into compatible ARGUS 220 motion detectors (e.g., ARGUS 220, ARGUS 220 Timer, Article No. 5654xx, 5656xx). It can be retrofitted into existing installations.

5.1. Integration into ARGUS 220 Motion Detector

1. Ensure the main power supply to the motion detector circuit is switched off at the circuit breaker.
2. Open the housing of the ARGUS 220 motion detector according to its specific instructions.
3. Carefully insert the ARGUS 565495 Radio Module into the designated slot within the motion detector. Ensure it is securely seated.
4. Close the motion detector housing.

5.2. Learning Process (Pairing)

After installation, the radio module and connected ARGUS 220 detectors must be 'learned' or paired to establish wireless communication. Refer to the specific instructions for your ARGUS 220 motion detector for detailed steps on initiating the learning mode and pairing process. Typically, this involves a sequence of

power cycles or button presses on the motion detectors.

6. Operating Instructions

The ARGUS 565495 Radio Module facilitates the wireless transmission of motion detection signals and supports various functions of the connected ARGUS 220 motion detectors.

6.1. Supported Functions

The radio module supports the following functions when integrated with compatible ARGUS 220 motion detectors:

- **Run Time:** Controls the duration for which connected devices (e.g., lights) remain active after motion detection.
- **Off Time:** Manages periods when the motion detector is inactive.
- **Automatic Mode:** Standard operation where motion detection triggers actions.
- **Kit (Timer) Mode:** (*ARGUS 220 Timer only*) Allows for specific timed operations. In this mode, the ARGUS 220 can utilize its current twilight threshold for activation.

6.2. Wireless Communication

When motion is detected by any paired ARGUS 220 motion detector, the integrated radio module transmits a signal at 868 MHz using FSK (Frequency Shift Keying) bidirectional transmission. This signal is received by all other 'learned' ARGUS 220 detectors, enabling them to respond accordingly (e.g., activate lighting simultaneously).

7. Maintenance

The Merten ARGUS 565495 Radio Module requires minimal maintenance. To ensure optimal performance:

- Periodically inspect the motion detector housing for any signs of damage or obstruction.
- Gently clean the exterior of the motion detector with a soft, dry cloth. Do not use abrasive cleaners or solvents.
- Ensure the power supply to the motion detector is stable.

8. Troubleshooting

If you experience issues with your Merten ARGUS 565495 Radio Module, consider the following:

- **No Communication:** Check if the radio module is correctly installed within the ARGUS 220 motion detector. Verify that all motion detectors are properly powered and have completed the 'learning' process.
- **Limited Range:** Ensure there are no significant obstructions (e.g., thick walls, metal objects) between the motion detectors. The effective range is up to 100m in open fields and up to 30m in buildings.
- **Intermittent Operation:** Check for potential sources of radio interference in the vicinity (e.g., other 868 MHz devices).
- **Power Issues:** Confirm that the ARGUS 220 motion detector, which powers the radio module, is receiving a stable power supply.

If problems persist, consult a qualified electrician or contact Merten customer support.

9. Specifications

Feature	Specification
Model Number	565495
Manufacturer	Merten
Radio Frequency	868 MHz
Transmission Type	FSK (Frequency Shift Keying), Bidirectional
Range (Open Field)	Up to 100 m
Range (Buildings)	Up to 30 m
Product Dimensions (L x W x H)	7.4 x 17.8 x 6.2 cm
Weight	9.07 grams
Power Source	Powered via connected ARGUS 220 motion detector
Components Included	None (Radio Module is the primary component)
Compatible with	ARGUS 220 (Article No. 5654xx), ARGUS 220 Timer (Article No. 5656xx)

10. Warranty and Support

For warranty information, technical support, or service inquiries, please refer to the documentation provided with your ARGUS 220 motion detector or visit the official Merten website. Keep your purchase receipt as proof of purchase.