



## ACTIVSENSE DM3110R Addressable Point Detector Intelligent Addressable Manual Call Point Installation Guide

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**ACTIVSENSE DM3110R Addressable Point Detector Intelligent Addressable Manual Call Point Installation Guide**



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## Installation Sheet

### Description

The DM3000 Series Intelligent Addressable Manual Call Point is designed for indoor use and supports the Aritech 2000 protocol.

All units are supplied with a resettable element – this can be replaced with a breakable element, if required (order number

N-MC-FE). See “Replacing the resettable element” on page 3. The series includes the following models.

Model	Description
DM3010R [1]	Red intelligent addressable manual call point
DM3110R [1]	Red intelligent addressable manual call point with integrated short circuit isolator
[1] Also available in blue, green, orange, white, and yellow.	

### Figures

**Figure 1:** Mounting holes and dimensions

**Figure 2:** Front assembly terminal block and DIP switch

**Figure 3:** Unlocking the front cover

**Figure 4:** Removing the front cover

**Figure 5:** Removing the resettable element

**Figure 6:** Replacing the front cover

## Installation

Caution: This product must be installed and maintained by qualified personnel adhering to all local or national installation requirements and any other applicable regulations.

### Addressing

Set the device address before installation using the DIP switch on the back of the front assembly (see Figure 2).

The address range is 001-128. See the table on the last page of this publication for DIP switch positions for each address.

**Note:** If you change the device address after installation, you must disconnect the device from the loop power for at least one second and then reconnect it for the new address to be recognised.

## Installation

The manual call point can be surface mounted or recess mounted.

For surface mounting, order one of the backboxes shown in the table below.

Model	Description
N-MC-BB-R	Red backbox
N-MC-BB-U	Blue backbox
N-MC-BB-G	Green backbox
N-MC-BB-O	Orange backbox
N-MC-BB-W	White backbox
N-MC-BB-Y	Yellow backbox

For recess mounting, order one of the recess adaptors and (if required) trim skirts shown in the table below.

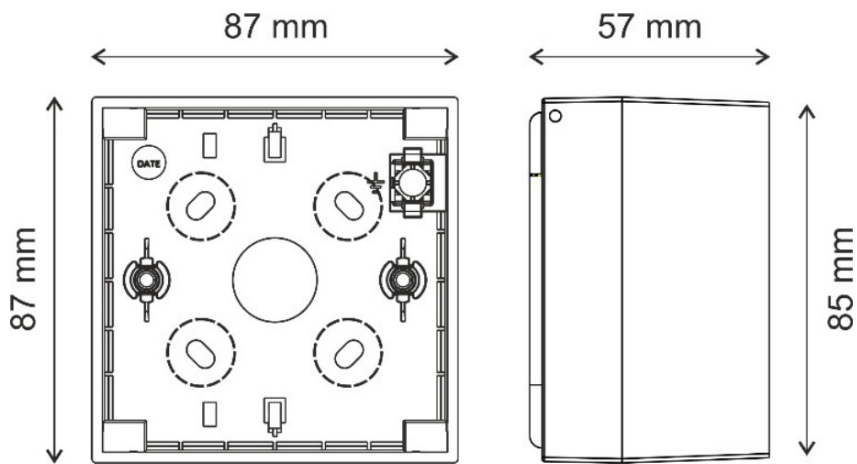
Model	Description
N-MC-AFM-R	Red recess adaptor
N-MC-AFMG-R	Red recess adaptor with fork grips
N-MC-S-R	Red trim skirt
N-MC-AFM-G	Green recess adaptor
N-MC-S-G	Green trim skirt

Remember to remove the protective dust cover after commissioning.

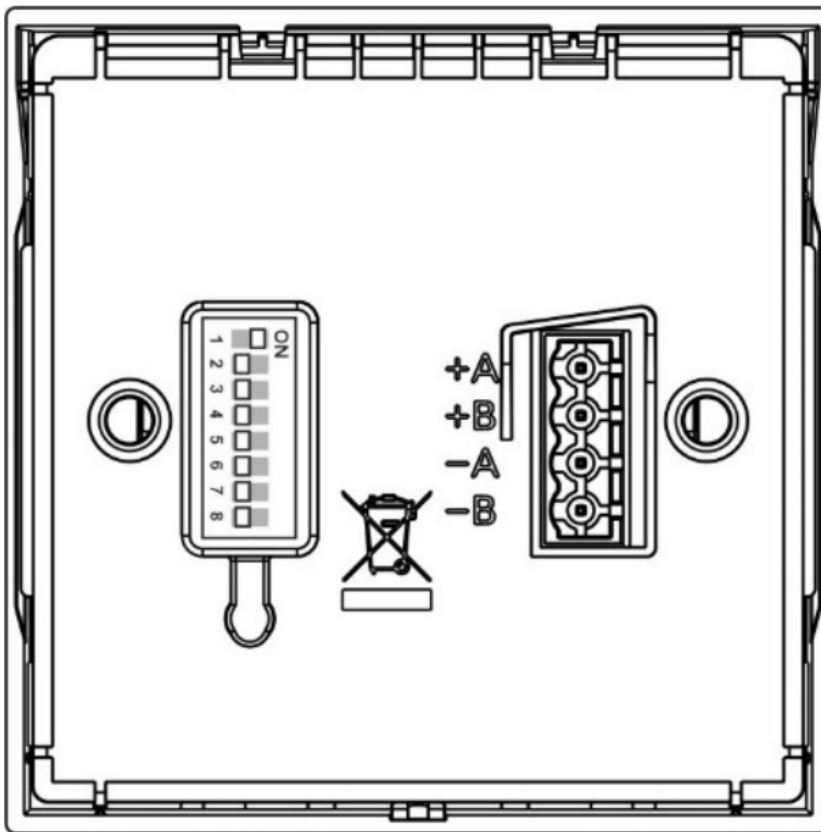
**Note:** The dust cover may also be used to indicate when the unit is not operational (for example, before commissioning, during maintenance, when disabled, etc.)

To surface mount the manual call point:

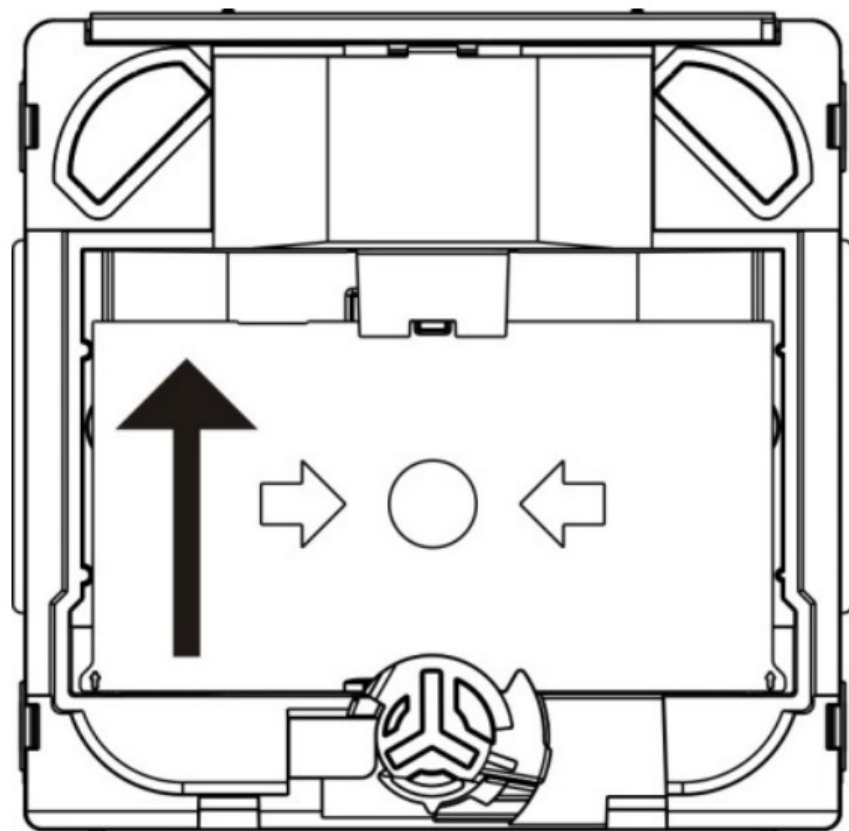
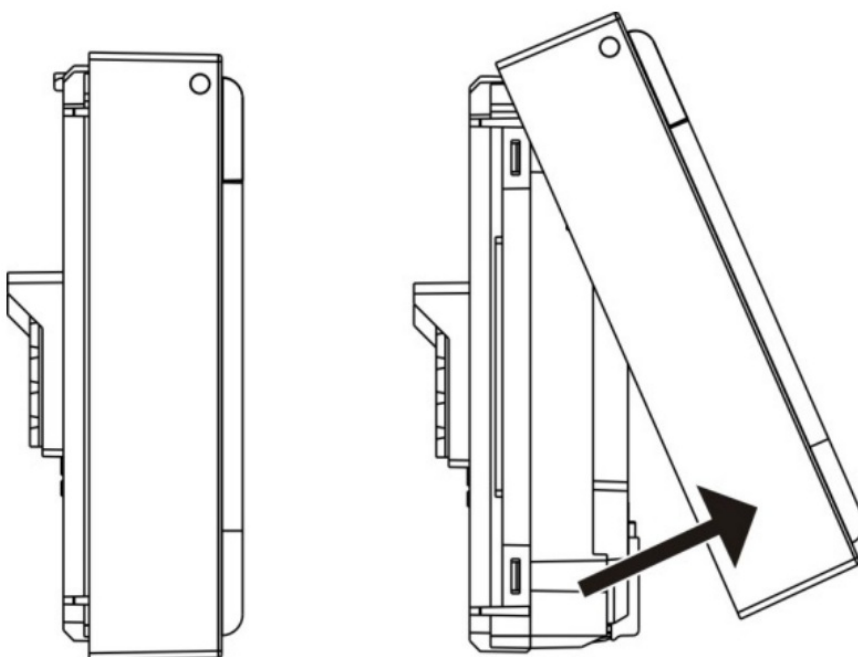
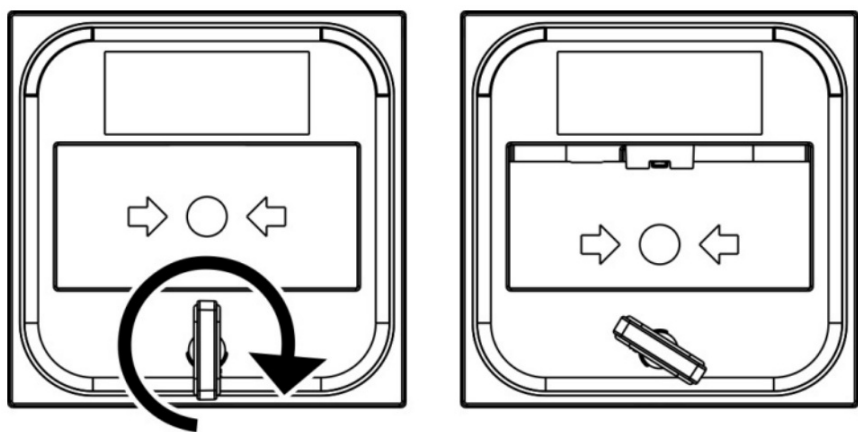
1. Fix the backbox onto the wall using 4 × M4 screws (not supplied) and feed the loop cable through the selected cable knockouts. Depending on your installation requirements, the backbox can be installed with two cable knockouts at the top and one at the bottom or with one cable knockout at the top and two at the bottom. **See Figure 1** for the location of the mounting holes.



2. Connect loop cable to the supplied terminal block, and then plug the terminal block into the PCB connector on the back of the front assembly (**see Figure 2**). Use the supplied cable link to test cable continuity before the terminal block is plugged into the PCB connector on the back of the front assembly. See “Wiring” on page 3 for terminal block connections and loop cable specifications.

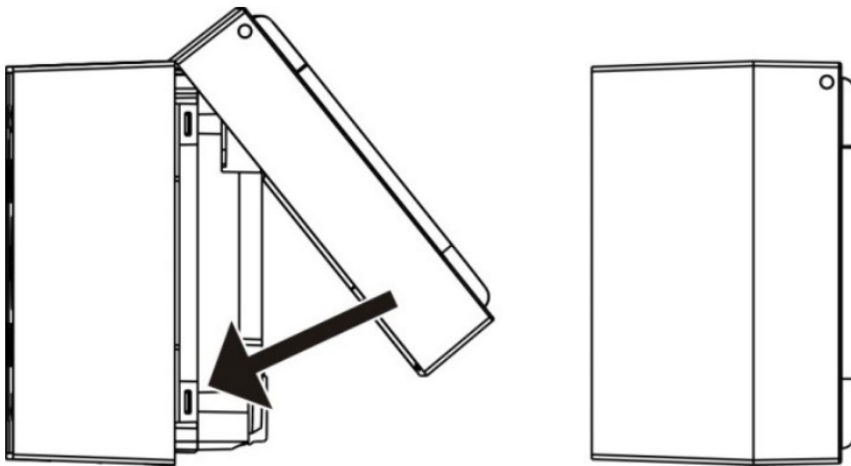


3. Unlock and remove the front cover, and then remove the resettable element. To unlock the front cover, insert the key and turn it clockwise (two clicks), then pull the cover outwards from the bottom to remove it (**see Figure 3 and Figure 4**). To remove the resettable element, push the element up, and then pull it out (**see Figure 5**).



4. Fix the front assembly to the backbox using the 2 screws supplied with the unit (located in the backbox).
5. Replace the resettable element (or add the breakable element, if required), and then replace the front cover

(see Figure 6).



Turn the key anticlockwise (two clicks) to lock the cover, and then remove the key.

Finally, test the manual call point (see “Testing” on page 3).

## Wiring

For optimal system performance, use 0.13 to 3.31 mm<sup>2</sup> (0.40 to 2.05 mm) twisted-pair cable with a maximum length of 2 km.

Wire the unit as described below. Observe the indicated polarity.

Terminal	Description
A+	Positive line (+)
B+	Positive line (+)
A–	Negative line (–)
B–	Negative line (–)

## Device status

The device status is indicated by two colour changing LEDs on the front of the unit, as shown in the table below.

State	Indication
Alarm	Steady red LEDs [1]
Isolation active	Steady yellow LEDs [2]
Fault	Flashing yellow LEDs
Communicating	Flashing green LEDs

1. This may also indicate an active Locate Device command from the control panel.
2. DM3110 models only.

## Maintenance and testing

### Maintenance

The unit should be maintained and tested according to local or national requirements and any other applicable regulations. Do not modify internal wiring or circuitry.

### Testing

To activate an alarm, push the resettable element or turn the key clockwise (one click). To reset the device, turn the key anticlockwise (one click). Reset the control panel after testing.

Replacing the resettable element

Replace the resettable element (or add the breakable element) as follows:

1. Unlock and remove the front cover as described in “Installation” on page 2.
2. Push the element up, and then pull it out (see Figure 5).
3. Replace the resettable element (or add the breakable element, if required).
4. Replace the front cover.

### Analogue values

Analogue values for diagnosing and troubleshooting device status are shown in the table below.

Value	Device Status
32	Normal
128	Alarm

## Specifications

### Electrical

Operating voltage	17 to 38 VDC
Current consumption StandbyDM3010 DM3110AlarmDM3010 DM3110	180 µA200 µA 2.8 mA2.8 mA

### Isolation

The following isolation specifications apply to DM3110 models with an integrated short circuit isolator.

Current consumption (isolation ACTIVE)	1.5 mA
Isolation voltage Minimum Maximum	14 VDC15.5 VDC
Reconnect voltage Minimum Maximum	14 VDC15.5 VDC
Rated current Continuous (switch closed) Switching (short circuit)	1 A1 A
Leakage current	1 mA max.
Series impedance	0.06 $\Omega$ max.
Number of isolators per loop	128 max.
Number of devices between isolators	32 max.

## Mechanical and environmental

IP rating	IP41
Backbox cable knockouts BackTop/bottom [1]	1 $\times$ $\varnothing$ 20 mm1 $\times$ $\varnothing$ 25 mm2 $\times$ $\varnothing$ 20 mm
Wire sizeMinimum Maximum	0.13 mm <sup>2</sup> (0.40 mm)3.31 mm <sup>2</sup> (2.05 mm)
Operating environment Operating temperature Storage temperature Relative humidity	–25 to +72°C–25 to +72°C10 to 95% (noncondensing)
ColourRed Blue Green Orange White Yellow	RAL3028 RAL5005 RAL6024 RAL2008 RAL9003 RAL1003
MaterialBody Contacts	ABS, PC, PMMA, POMN sickle plated H59, tin plated QSn6.5-0.1, tin plated H65
Weight Without backbox With backbox [2]	110 g165 g

1. Top/bottom location subject to installation orientation.
2. Backbox not supplied.

## Regulatory information


This section provides a summary on the declared performance according to the Construction Products Regulation (EU) 305/2011 and Delegated Regulations (EU) 157/2014 and (EU) 574/2014.

For detailed information, see the product Declaration of Performance (available at [firesecurityproducts.com](https://firesecurityproducts.com))



Conformity



Notified/Approved body	0370
Manufacturer	Carrier Safety System (Hebei) Co. Ltd., 80 Changjiang East Road, QETDZ, Qinhuangdao 066004, Hebei, China. Authorized EU manufacturing representative: Carrier Fire & Security B.V., Kelvinstraat 7, 6003 DH Weert, Netherlands.
Year of first CE marking	2022
Declaration of Performance number [1]DM3010 DM3110	03-0210-360-108303-0210-360-1093
EN 54 [1]	EN 54-11 Type A (Indoor Use) EN 54-17:2005
Product identification [1]	DM3010R, DM3110R, DM3010RS06, DM3110RS06, DM3010RS18, DM3110RS18, DM3010RS27, DM3110RS27, DM3010RSCH, DM3110RSCH, DM3010RSCL, DM3110RSCL
Intended use	See the product Declaration of Performance
Declared performance	See the product Declaration of Performance
	2012/19/EU (WEEE Directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: <a href="https://recyclethis.info">recyclethis.info</a> .

The Declaration of Performance only covers red manual call points. Only red manual call points are covered by EN 54-11 and EN 54-17.

## Contact information and product documentation

For contact information or to download the latest product documentation, visit [firesecurityproducts.com](https://firesecurityproducts.com).

## Product warnings and disclaimers

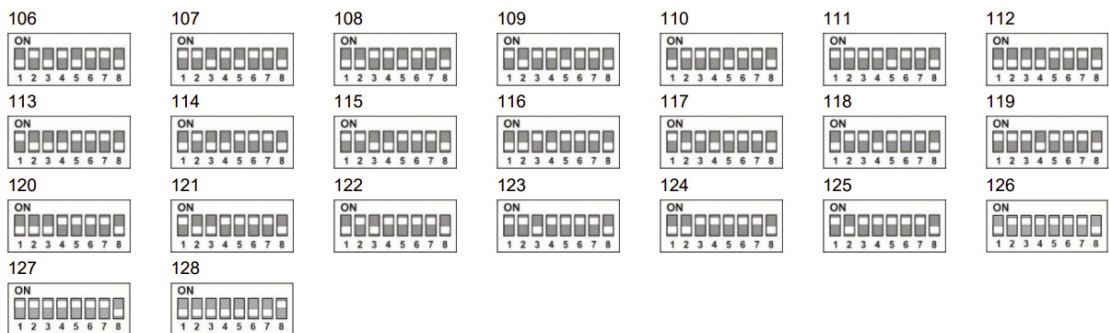
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## Instructions

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## Documents / Resources

	<p><a href="#">ACTIVSENSE DM3110R Addressable Point Detector Intelligent Addressable Manual Call Point</a> [pdf] Installation Guide</p> <p>DM3010R, DM3110R, DM3110R Addressable Point Detector Intelligent Addressable Call Point , DM3110R, Addressable Point Detector Intelligent Addressable Call Point, Point Detector Intelligent Addressable Call Point, Intelligent Addressable Call Point, Addressable Call Point, Call Point, Point</p>
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