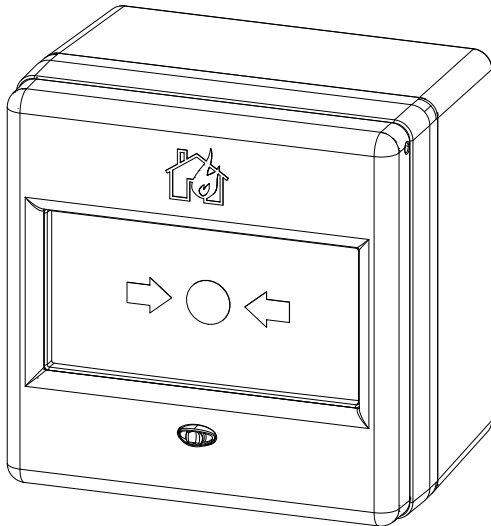


SIEMENS



FDM275-O

Radio manual call point

Mounting

Imprint

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Table of contents

1	About this document	5
2	Mounting and installation	6
2.1	Mounting radio manual call point FDM275-O	6
2.2	Installation	7
2.3	Installing the protective cover	9
2.4	Replacing the plastic insert with a glass insert	10
3	Details for ordering	11
3.1	Battery pack BAT3.6-10	11
3.2	Protective cover FDMC295	11
3.3	Glass insert FDMG295	11
3.4	Plastic insert FDMP295	12
3.5	Key FDMK295	12
4	Specifications	13
4.1	Technical data	13
4.2	Dimensions	15
4.3	Master gauge for recesses	15
4.4	Environmental compatibility and disposal.....	15

1 About this document

Overview

The FDM275-O radio manual call point is intended for use in areas of a house where a fire can be detected by people who can manually trigger an alarm.

The radio manual call point FDM275-O consists of a back box, a switching unit, and a battery pack.

Goal and purpose

This document contains all the information required to install the radio manual call point FDM275-O.

Prerequisites:

- The installation location of the radio manual call point has been established.
- Mounting should be performed by a specialist in compliance with safety regulations.

You will find more information on the FDM275-O radio manual call point in document A6V10425652 'Technical Manual Radio manual call point FDM275-O'.

Document ID	Title
A6V10431682	Data sheet Radio fire detection system OEM
A6V10425603	Planning Radio fire detection system OEM
A6V10425652	Technical Manual Radio manual call point FDM275-O

Intended use

The radio manual call point FDM275-O may only be used in a fire detection system with a radio gateway approved by the manufacturer.

The radio manual call point FDM275-O is compatible with the radio module FDRF272-O.

2 Mounting and installation

2.1 Mounting radio manual call point FDM275-O



Secure the radio manual call point FDM275-O at a height of 0.9...1.6 m on an even surface. Observe the country-specific regulations for the exact mounting height!

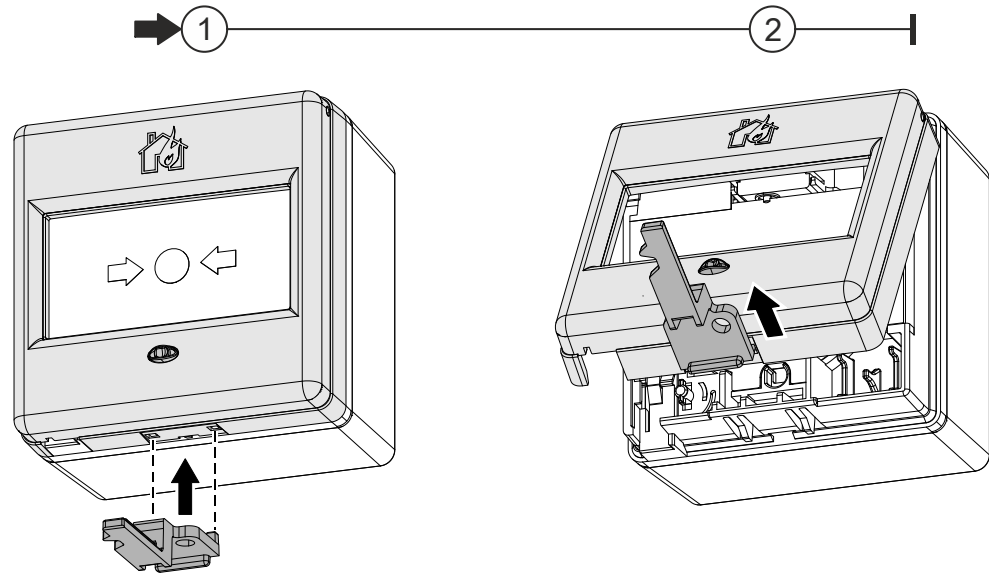
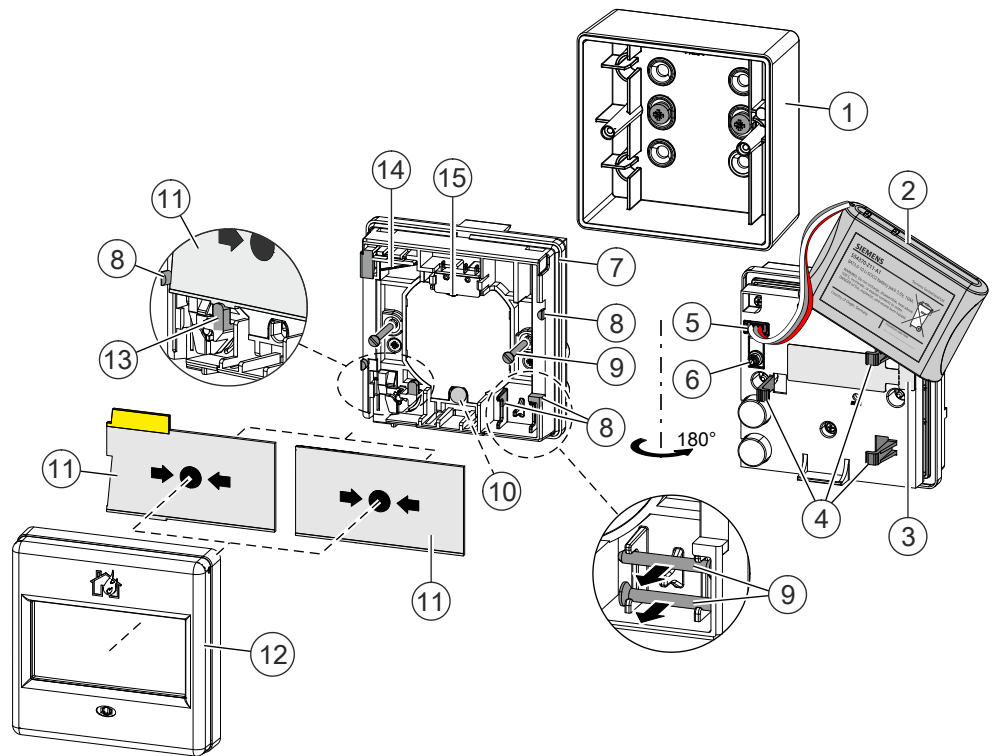


Figure 1: Opening the housing with the key FDMK295

- ▷ The position of radio manual call point FDM275-O has been established.
 - ▷ You have a tool and two screws (max. \varnothing 4 mm) for securing purposes.
1. Remove the housing cover with the key.
 - Insert the key into the opening at the bottom of radio manual call point FDM275-O.
 - Use the key to pull the housing cover forward and off the back box.
 2. **NOTICE! Keep the key in a safe place.**
 3. Remove the switching unit from the back box.
 4. For securing the back box, select two screw positions that are spaced far apart from one another. See also chapter 'Master gage for recesses [→ 15]'.
 - ⇒ The manual call point is now prepared for installation.

2.2 Installation



- | | |
|---------------------------------------|-----------------------------|
| 1 Back box | 9 Screws for switching unit |
| 2 Battery pack BAT3.6-10 ¹ | 10 Internal alarm indicator |
| 3 Type plate with adhesive label | 11 Plastic/glass insert |
| 4 Battery holders | 12 Housing cover |
| 5 Battery connector | 13 Retainer |
| 6 Housing switching contact | 14 Spring |
| 7 Switching unit | 15 Triggering device |
| 8 Stop | |

¹ not included in the scope of delivery



The flashing behavior of the internal alarm indicator is described in document A6V10425652 in the 'Internal alarm indicator' chapter.

- ▷ The back box is fastened.
 - ▷ You have a new, undamaged battery pack to hand.
 - ▷ You have key FDMK295 and a Phillips screwdriver to hand.
 - ▷ The radio gateway has been activated and switched to maintenance mode.
1. Remove the adhesive label with the serial number from the type plate (3) on the switching unit. Use the adhesive label to mark the position of the radio manual call point FDM275-O on the device location plan.
 2. Label the battery pack (2) with the current date.
 3. If the switching unit (7) needs to be switched to 'factory setting'

- Close the battery connector (5) and press the button in the 'new' opening with a slim pen or pencil for approx. five seconds.
 - ⇒ The internal alarm indicator flashes red.
 - ⇒ The radio manual call point FDM275-O is set to the factory setting.
 - 4. Insert the battery pack into the switching unit so that it snaps into place in the three battery holders (4).
 - 5. Lay the connection cable according to the diagram and connect the battery connector (5).
 - ⇒ The internal alarm indicator (10) lights up red.
 - ⇒ After a further 10 seconds, the radio manual call point FDM275-O signals that it is not installed in the housing, and the internal alarm indicator flashes every two seconds:
 - If it flashes red, this indicates the factory setting.
 - If it flashes green, this indicates that the radio manual call point FDM275-O has already been logged on to a radio gateway.
 - ⇒ If this does not happen, this means the battery pack is defective and must not be used.
 - 6. Place the switching unit with the battery pack into the back box (1).
 - 7. Remove the plastic/glass insert (11). Details on replacing the glass can also be found in the 'Replacing the plastic insert with a glass insert [→ 10]' chapter.
 - 8. Screw the switching unit tightly to the back box (1) using the two screws supplied with the switching unit (9).
 - 9. Place the glass/plastic insert (11) between the stops (8) and slide the plastic/glass insert against the triggering device (15), as shown in the diagram.
 - ⇒ This pre-stresses the spring (14).
 - ⇒ The internal alarm indicator flashes green and the radio manual call point FDM275-O is logged on to the radio gateway.
 - ⇒ If the process of logging on to the radio gateway is successful, the internal alarm indicator stops flashing.
 - 10. If the logon process has not been successful after a long period of time, remove the switching unit from the back box and then re-insert it.
 - ⇒ The search for the radio network starts again.
 - 11. Install the housing cover on the back box.
 - Hook the top housing cover into the back box.
 - Snap the bottom housing cover into place in the back box.
- ⇒ Radio manual call point FDM275-O is mounted and ready for commissioning.


⚠ WARNING
Deactivating the manual call points prevents alarms from being forwarded.

The alarm is not triggered.

- Mark deactivated manual call points or those which are not fully functional with the notice 'NOT IN USE'!

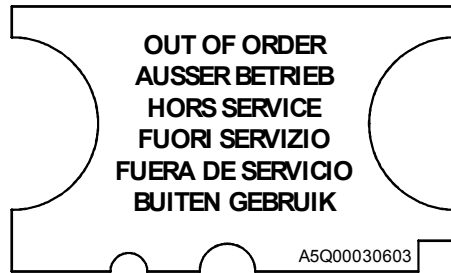


Figure 2: 'Not in use' label

2.3 Installing the protective cover

If a protective cover (accessories) is being used, proceed as described below:

- ▷ The radio manual call point has been installed and electrically connected. See the chapter 'Installation [→ 7]'.
 - ▷ A compatible protective cover is available. See the chapter 'Protective cover FDMC295'.
 - Snap the protective cover FDMC295 (2) into place in the recesses in the housing cover (1) intended for this purpose. See also 'Protective cover FDMC295' chapter.
- ⇒ The protective cover is installed.

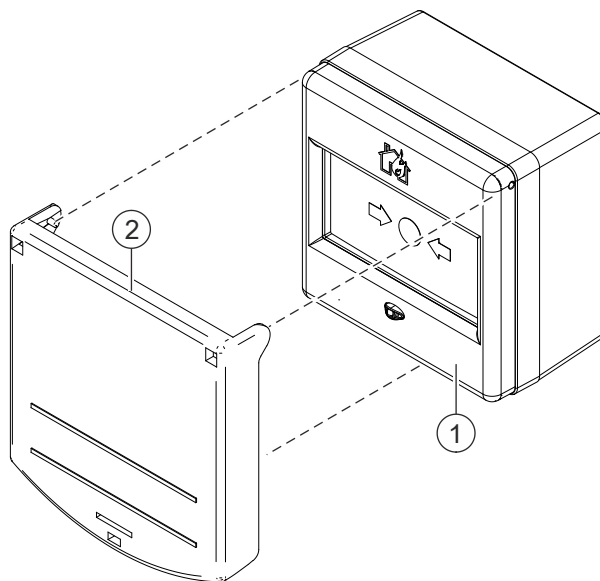


Figure 3: Installing the protective cover FDMC295

1 Radio manual call point FDM275-O

2 Protective cover

2.4 Replacing the plastic insert with a glass insert

Proceed as follows to replace the plastic insert with a glass insert:

- ▷ The detector line to which the manual call point is connected is switched off.
- 1. Remove the housing cover with the key.
- 2. Remove the plastic insert (1) and dispose of it properly.
- 3. Place the glass insert (6) between the following points:
 - Retainer (5)
 - Left and right stops (4)
 - Spring (2)
 - Triggering device (3)
 - ⇒ This pre-stresses the spring (2).
- 4. Install the housing cover on the back box.
 - Hook the top housing cover into the back box.
 - Snap the bottom housing cover into place in the back box.
- ⇒ The plastic insert is replaced with a glass insert.

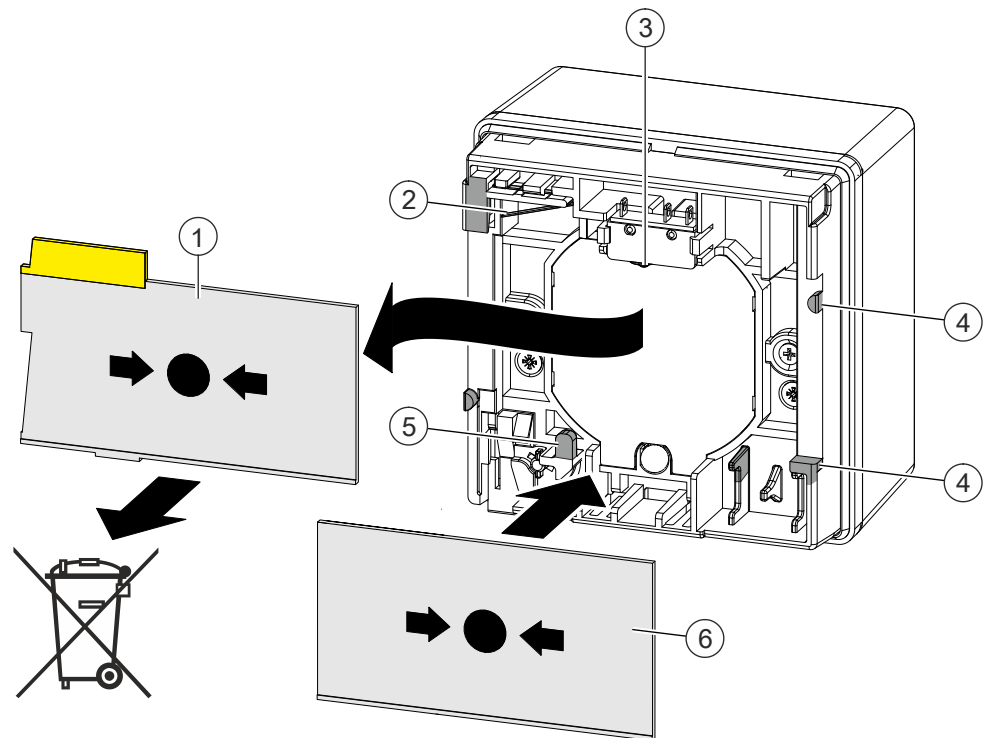
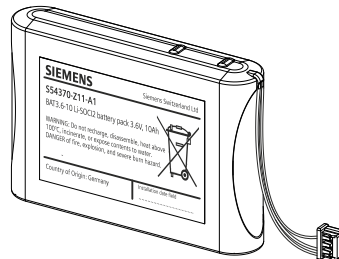


Figure 4: Replacing the plastic insert with a glass insert

- | | | | |
|---|-------------------|---|--------------|
| 1 | Plastic insert | 4 | Stop |
| 2 | Spring | 5 | Retainer |
| 3 | Triggering device | 6 | Glass insert |

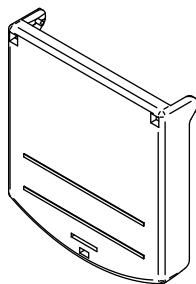
3 Details for ordering

3.1 Battery pack BAT3.6-10



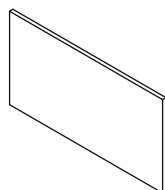
- For supplying radio devices and the radio gateway with power
- Lithium batteries
 - BAT3.6-10 LI-SOCI2 battery pack 3.6 V, 10 Ah
- Batteries with battery cable
- Connector system with protection against polarity reversal
- Inscription field for commissioning date
- Compatible with:
 - Radio manual call point FDM273-O
 - Radio manual call point FDM275-O
 - Radio fire detector FDOOT271-O
- Order number: S54370-Z11-A1

3.2 Protective cover FDMC295



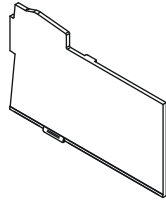
- For protection against unintended alarm activation
- Compatible with:
 - Radio manual call point FDM275-O
- Order number: A5Q00013440

3.3 Glass insert FDMG295



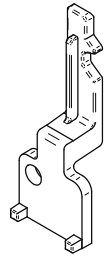
- For alarm activation and protection against soiling
- Compatible with:
 - Radio manual call point FDM275-O
- Order number: A5Q00013442

3.4 Plastic insert FDMP295



- For alarm activation and protection against soiling
- Compatible with:
 - Radio manual call point FDM275-O
- Order number: A5Q00013445

3.5 Key FDMK295



- For testing and resetting manual call points
- For removing the housing cover from the back box
- Compatible with:
 - Radio manual call point FDM275-O
- Order number: A5Q00013448

4 Specifications

4.1 Technical data

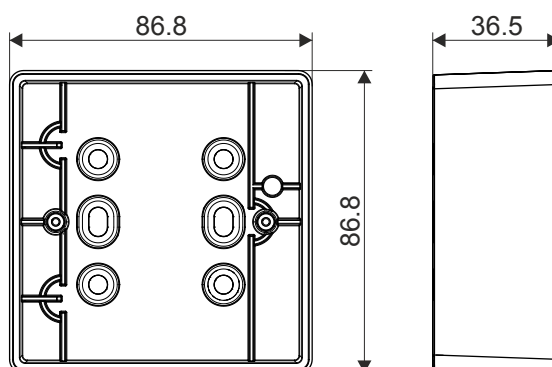
You will find information on approvals, CE marking, and the relevant EU directives for this device (these devices) in the following document(s); see 'Applicable documents' chapter:

- Document A6V10431682

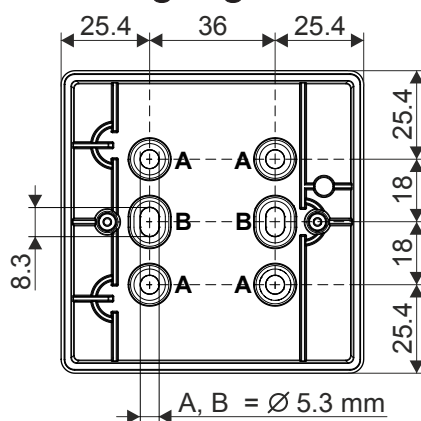
Device characteristics	Detector diagnosis	With FXS2061-O Wireless diagnostic tool or connected fire control panel
	Type of alarm activation	Type A (direct activation)
Radio	Sending/receiving aerials	Dual band aerial
	Frequency range	433.05...434.79 MHz in band 44b ¹ 868...870 MHz in band 48, 49, 50, 54, and 56b ¹
	Channel grid	50 kHz
	Number of channels	27 in 868 MHz band 20 in 433 MHz band
	Transmitting power	≤10 mW ERP in band 44b and 49 ¹ Type 10 (max. ≤25) mW ERP in band 48, 50, 54, and 56b ¹
	Range	See document A6V10425603
	¹ COMMISSION IMPLEMENTING DECISION (EU) 2019/1345 of 2 August 2019 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices (notified under document C(2019) 5660)	
Battery	Lithium battery pack	BAT3.6-10 LI-SOCI2 battery pack 3.6 V, 10 Ah
	Battery service life	Dependent upon ambient conditions At least 3 years
	Service life 'Battery low'	>3 months
	Battery voltage monitored	Yes
	Weight	0.093 kg
Detector line	Radio connection to detector line via radio gateway	Radio gateway
	Radio connection to PC via MCL-USB adapter	FDUZ227
	System compatibility	See 'List of compatibility'

Ambient conditions	Place of installation	Inside buildings/indoors
	Operating temperature	-10...+55 °C
	Storage temperature	-30...+75 °C
	Air humidity	≤95 % rel.
	Protection categories (IEC 60529):	IP24D
	Electromagnetic compatibility:	
	• 10 kHz...100 kHz	160 V/m
• 100 kHz...2.5 GHz	30 V/m	
Mechanical data	Weight:	0.216 kg
	Housing material	Red => Polycarbonate (PC) Black => Acrylonitrile butadiene styrene (ABS)
	Housing color	~RAL 3000 flame red
Standards	European standards	<ul style="list-style-type: none">• EN 54-11• EN 54-25• EN 300220-2• EN 301489-3• EN 60950-1

4.2 Dimensions



4.3 Master gauge for recesses



4.4 Environmental compatibility and disposal



This equipment is manufactured using materials and procedures which comply with current environmental protection standards as best as possible. More specifically, the following measures have been undertaken:

- Use of reusable materials
- Use of halogen-free plastics
- Electronic parts and synthetic materials can be separated

Larger plastic parts are labeled according to ISO 11469 and ISO 1043. The plastics can be separated and recycled on this basis.



Electronic parts and batteries must not be disposed of with domestic waste.

- Take electronic parts and batteries to local collection points or recycling centers.
- Contact local authorities for more information.
- Observe national requirements for disposing of electronic parts and batteries.

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