GM-IPOP 90,90D,90T & 90M



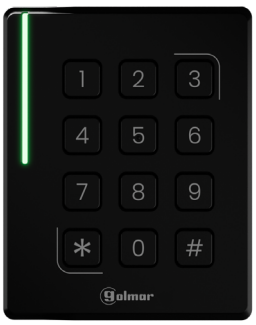
GM-IPOP 90T



GM-IPOP 90



GM-IPOP 90M



GM-IPOP 90D

INSTALLATION GUIDE

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1. INTRODUCTION

Installation guide for 13.56 MHz and 2.4 GHz (NFC/BLE) proximity readers using the 2-WIRE (2SAFE) protocol.

2. WIRING & COMMUNICATION SETTINGS



Terminal	Description
D+	+VDC
D-	Ground

Wires

Several switches ( ) are located on the electronic board accessible from the back of the reader. To use in 2-wire mode, make sure the following setup is selected:

- RS485/Wiegand: Select RS485
- Address 0/1: Select 0
- 120R: Disabled

3. END OF LIFE

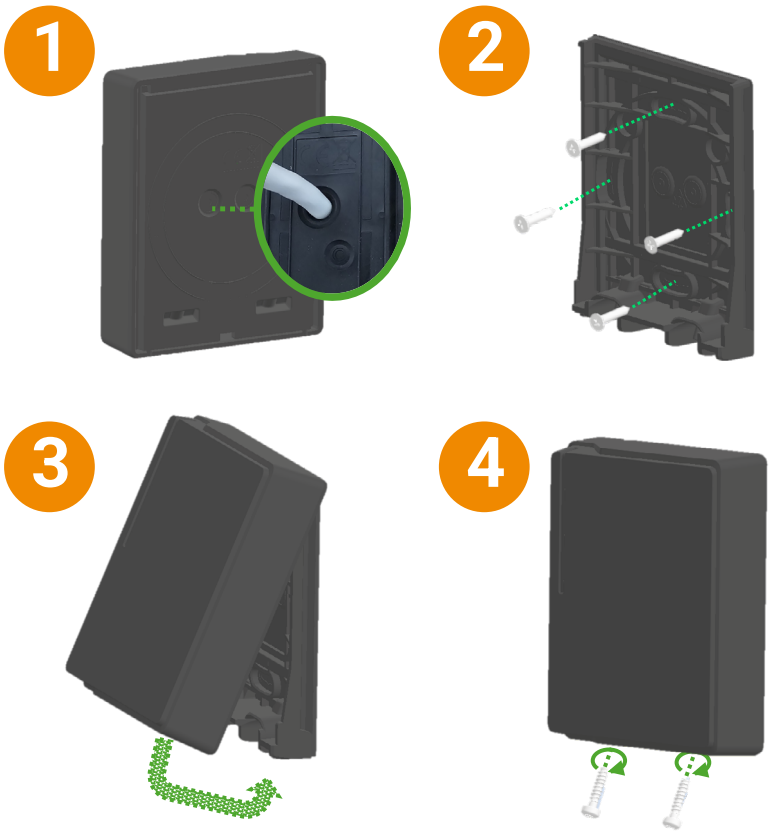
Do not dispose of this product with household waste. Take it to a WEEE collection point or an approved WEEE center to ensure its recycling.

4. REGULATORY INFORMATION

FDI Access, the manufacturer, declares under its sole responsibility that these readers (GM-IPOP 90, GM-IPOP 90D, GM-IPOP 90T and GM-IPOP 90M) comply with the applicable Union harmonization legislation:Directive RED 2014/53/UE of 22/05/2014

- Electromagnetic compatibility (EMC): EN 301 489-3 V1.6.1
- Radio : EN 302 291-2 V1.1.1
- Safety : EN 50364 (07/2010) & EN 60950-1 (2006) + amendments

5. READER INSTALLATION



1. Using a Phillips screwdriver (smaller in diameter than the cable), pierce the flexible membrane on the back of the reader bracket.

⚠ To avoid compromising the membrane's watertightness, do not drill crosswise with a cutter. If two cables need to reach the reader, drill two holes in the membrane.

2. Screw the reader bracket on the wall, after first drilling the wall and inserting wall plugs. Select the used screws according to your wall mount.

⚠ Screw diameters must be between 3 and 4 mm. All standard screw head and socket shapes are accepted.

3. After correctly wiring the reader (see page 4), swing the device onto its support. The notch at the top of the plastic insert fits into the upper part of the bracket.

4. Close the reader securely by pressing and tighten the fixing screw at the bottom of the device by hand only, using a T15 Torx screwdriver. Be careful to respect the angle of the screw (see figure 4).

⚠ Be careful not to exceed the tightening torque of 0.6Nm. Beyond this, there is a risk of failing the screw barrel of the base.

This installation procedure applies to readers: GM-IPOP 90, GM-IPOP 90D, GM-IPOP 90T and GM-IPOP 90M.

6. DEVICE SPECIFICATIONS

POWER SUPPLY			
Operating voltage	12VDC (Min: 7VDC / Max: 28VDC)		
Energy consumption (12V)	GM-IPOP 90/GM-IPOP 90D	GM-IPOP 90T	GM-IPOP 90M
	Low: 20 mA | 0,25 W Mid: 40 mA | 0,5 W High: 150 mA | 1,7 W	Low: 25mA | 0,3 W Mid: 70mA | 0,8 W High: 180mA | 2 W	Low: 25mA | 0,3 W Mid: 30mA | 0,35 W High: 120mA | 1,5 W
COMMUNICATIONS & PROTOCOLS			
2SAFE (2-WIRES)	2 wires – 100m max		
Wiring recommandations	Cross-section of 0.22mm² – Shielded pair cable to prevent signal interferences		
Conexión	Terminal stripe		
READING DISTANCES			
MIFARE Classic	Up to 40 mm		
MIFARE Plus & DESfire	Up to 20 mm		
BLE	Up to 25m in open fields (depending on smartphone)		
NFC	Up to 40 mm		
LEDS AND BUZZER			
GM-IPOP 90, GM-IPOP 90D & GM-IPOP 90T	6 LEDs light signature – RGB 256		
GM-IPOP 90M	25 LEDs Matrix light signature - RGB 256		
Buzzer	Adjustable in tone		
LEDs & buzzer customization	Consult with Golmar		
PROTECTION			
Tamper	Sensor detection		
Operating temperature	-40° to +60°C | -40° to +140°F		
COMPATIBLE PRODUCTS			
Controller	2-wire iP-Opener controller		
Chip compatibility	Only FDI 13.56 credentials		
HARDWARE			
Dimensions (length x width x depth)	99 x 79,8 x 23,5 mm | 3.94 x 3.15 x 0.90 in		
Weight	130g/152g	153g	128g

we take care of your home

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