Olarm PRO

Datasheet

www.olarm.co.za/pro

Typical Applications

Building alarm panel monitoring & control

MANUFACTURER	SUPPORTED MODELS
Paradox	MG5050, SP6000, SP65, EVO192
IDS	805
DSC	PC1555, PC1616, PC832, PC864, PC1808, PC1832, PC1864, PC5005, PC5010, PC5015, PC5020
Texecom	Premier 412, Premier 816, Premier 816 PLUS, Premier 832

Save time onsite:
- Quick & easy to install
- Alarm panel auto-detect
- Zero device config

Save time & callouts
- Remotely program alarm panels*

Highly reliable & enhanced connectivity
- Simultaneous multi-network communication
- Dual SIM & Wifi
- Encryption

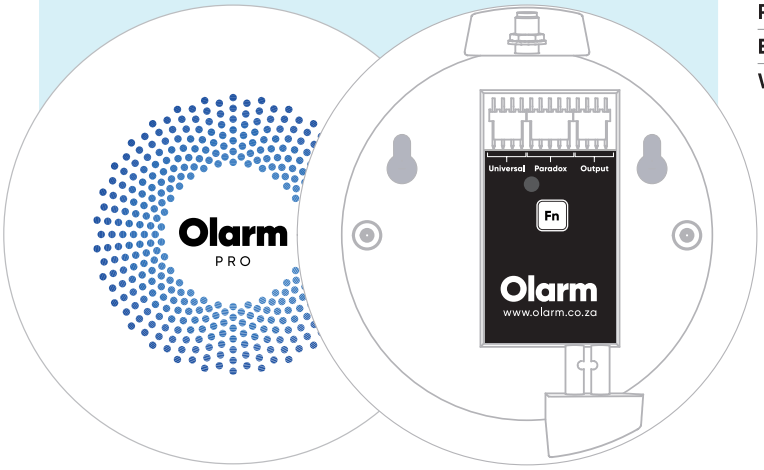
Quality service
- 24x7 support line
- Highly reliable network

Future proof
- Automatic firmware upgrades

Less stock management required
- One communicator supporting most alarm panels

Technology leader
- Constant innovation & integration of new models of alarm panels

*With Paradox alarms only.



Functionality	Paradox	IDS	DSC	Texecom
Zone status	●	●	●	●
Arm	●	●	●	●
Disarm	●	●	●	●
Stay Arm	●	●	●	●
Zone Name Pulling	●			
PGM	●			
AC Status	●	●	●	●
Multi-Partition Control	●		●	●
Bypassing	●	●	●	●
Remote programming	●			

Alarm Panel cable specification

1 x 1 meter 6 core cable (4 Cores used) (3.8mm Overall outer diameter, 0.8mm individual core out diameter, 0.5mm Individual inner diameter, tension relief thread built in)
1 x 4 pin White Molex connector (w/ 4 x metal friction pins)
1 x 5 pin White Molex connector (w/ 4 x metal friction pins, 1 slot n.c.)
See install guide more more information

Radio / Wireless Technology - WiFi

Wi-Fi standards	IEEE 802.11b/g/n
Center frequency range of operating channel	2412 ~ 2484 MHz
Antenna type	PCB Antenna
Data rate	20MHz: 11b: 1, 2, 5.5 and 11 Mbps 11g: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 11n: MCS0-7, 72.2 Mbps (Max) 40MHz: 11n: MCS0-7, 150 Mbps (Max)
Tx Power	13 to 19.5 dB (data rate dependant)
Rx Sensitivity	-69 to -97 dBm (data rate dependant)
Encryption	WPA2-PSK
WPS Mode	Push button method

2G

Frequency Bands	GSM900 & DCS1800
Sim cards	2 x Full Size SIM Cards Pre-populated with Vodacom and MTN for SA market
Antenna type	PCB Antenna
Tx Power	31.2 dBm at 900MHz 28.1 dBm at 1800 MHz

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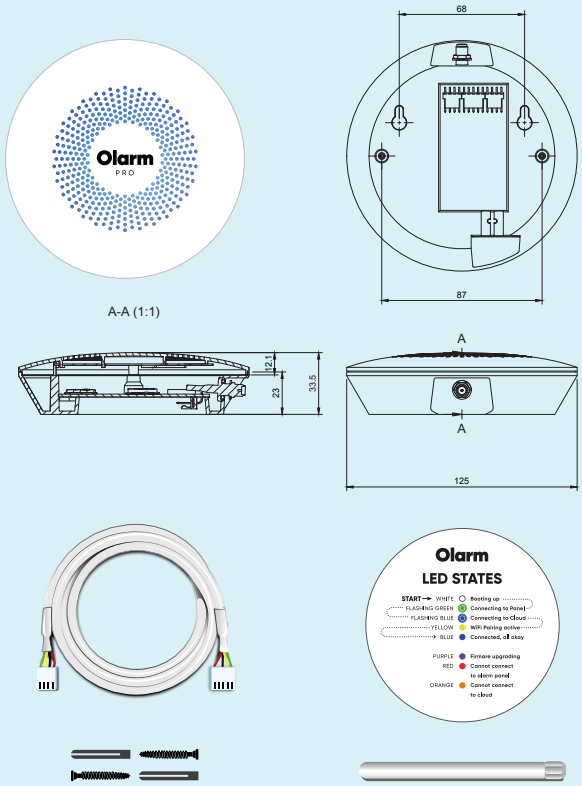

The Olarm PRO box includes the following:

1x Olarm PRO device
1x Connector cable
1x Drill hole template and LED colour legend
2x Screws and wall plugs
1x External antenna (selected models only)

Certifications

ETSI EN 301 511 V12.5.1 (2017-03)
ETSI TS 151 010-1 V12.8.0 (2016-05)
EN300 328
EN300 220
EN 301 489-1: V2.2.3
EN 301 489-3: V2.1.1
EN 301 489-17: V3.1.1
EN 301 489-52: V1.1.0
EN 62368-1

Technical specifications

Mechanical Specifications

Packaged weight: 125g
Packaged dimensions: 150 x 150 x 46 mm
Device weight: 82g
Cable weight: 28g
Device dimensions 125 mm diameter, 33.5mm height
Enclosure material: ABS - Resin MG47F
Status indicator: RGB LED

Operating conditions

Temperature –40 to 60 °C
Humidity: 0 - 90% RH

Mounting Options

2 x Mounting holes on back of enclosure
Mounting template provided
Avoid double sided tape as access to WiFi pairing button may be required after installation
Connector pinouts
Diagram of the pinouts

Power supply

Voltage: 10 to 15V DC. Typically supplied from the Alarm Panel via the cable provided
Current: Idle 120mA @13.8V DC, Transmit 350mA @13.8V DC

Capabilities

Paradox / Universal

The data line and power lines on this port are connected together and the plugs are purely to cater for multiple alarm types i.e. these two ports can be seen as the same port with two connectors.

The port is able to communicate using Asynchronous or Synchronous serial communication at 3v3 to 24V at sub 1MHz transmission speeds. In addition one is able to communicate using one wire communications methods.

The wire used to communicate with these ports should never exceed 8 meters in length.

Output

The setup of the pin is primarily used for module expansion to do various tasks externally. These expansion modules are not documented as they have not yet been designed or implemented. This port is purely placed to enable a form of expansion in the future.

Modules connected to this expansion module port should use a wire that does not exceed 1 meter in length.