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## DATASHEET

# Oalarm PRO 4G

Oalarm PRO 4G is a multi-channel dual SIM 4G / 2G and WiFi communicator. It enables the monitoring and control of a wide range of security peripherals, enabling users to effectively manage systems, such as alarm panels and electric fences.

Oalarm PRO requires an active subscription to function. You can purchase a subscription through your installer, Alarm response company or directly in the Oalarm APP.

## Supported peripherals

### For Alarm Panels

**Paradox** MG5050, MG5050+\*, SP6000, SP6000+\*\*, SP65, EVO192

\* Minimum panel firmware v1.11.001

\*\* Minimum panel firmware v1.10.004

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**DSC** PC1555, PC1616, PC832, PC864, PC1808, PC1832, PC1864, PC5005, PC5010, PC5015, PC5020

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**Texecom**

Premier 412, Premier 816, Premier 816 PLUS, Premier 832  
Elite 24, Elite 48, Elite 64, Elite 88, Elite 168

Premier 168 - Coming Soon  
Elite 640 - Coming soon

**IDS**

805, 806\*, X16\*, X64\*, X64 Serial\*

\* Requires an adapter board - sold separately.

Area & zone label sync	<input checked="" type="radio"/>		<input checked="" type="radio"/>	
Multi-area control	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Arm	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Disarm	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Stay arm	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Part arm			<input checked="" type="radio"/>	
Zone status	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
AC status	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
Bypassing	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>
	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	
<b>Feature</b>	<b>Paradox</b>	<b>IDS</b>	<b>Texecom</b>	<b>DSC</b>

**Alarm Panels compatible with Olarm LINK**

MG5050	<input checked="" type="radio"/>
MG5050+	<input checked="" type="radio"/>
SP6000	<input checked="" type="radio"/>
SP6000+	<input checked="" type="radio"/>
	<input checked="" type="radio"/>
<b>Paradox</b>	

Premier 412	<input type="radio"/>
Premier 816	<input type="radio"/>
Premier 816 PLUS	<input type="radio"/>
Elite 24	<input type="radio"/>
Elite 48	<input type="radio"/>
Elite 64	<input type="radio"/>
Elite 80	<input type="radio"/>
<b>Texecom</b>	

806	<input type="radio"/>
X16	<input type="radio"/>
X24	<input type="radio"/>
<b>IDS</b>	

**For Nemtek Electric Fences**

**Supported models**      Druid 13LCD, 15LCD, 18LCD, 25LCD, 28LCD  
 Merlin 4i  
 Merlin Stealth M28S, M28X

Fence/zone state	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Fence voltage mode	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
AC power status	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Battery status	<input type="radio"/>	<input type="radio"/>	
Service state	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gate status	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
<b>Status</b>	<b>Druid</b>	<b>Merlin 4i</b>	<b>Merlin Stealth</b>

Turn on/off			
Clear/reset			
Siren/strobe - enable/disable			
<b>Energizer</b>	Druid	Merlin 4i	Merlin Stealth

Turn on/off			
<b>Zones</b>	Druid	Merlin 4i	Merlin Stealth

<b>Gate Alarm</b>	Druid	Merlin 4i	Merlin Stealth
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### For JVA Electric Fences

Supported models Z-Range: Z11, Z13, Z14, Z18, Z114, Z28

Fence/zone state		
<b>Status</b>		Z Range

Turn on/off	
Clear/reset	
<b>Energizer</b>	Z Range

Turn on/off



Zones

Z Range

Gate Alarm

Z Range

## Peripheral connection

Protocols	Serial & Keybus depending on peripheral make & model
Standard cable length	1.5m
Maximum cable length	8m
Connectors	1 x 4 pin white Molex connector 1 x 5 pin white Molex connector
See installation guide for more information.	

## Signals

Contact ID

## Remote Connect serial bridge

Using Olarm Remote Connect, remotely access serial ports for remote management.

**Software supported**

Babyware

Wintex

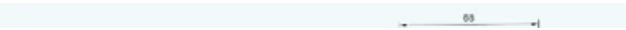
IDSwift

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## Mechanical Specifications

<b>Packaged weight:</b>	180g
<b>Packaged dimensions:</b>	150 x 150 x 46mm
<b>Device weight:</b>	93g
<b>Cable weight:</b>	40g
<b>Device dimensions:</b>	125mm diameter & 33.5mm height
<b>Enclosure material:</b>	ABS - Resin MG47F
<b>Status indicator:</b>	RGB LED

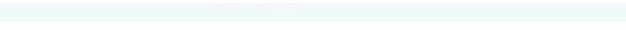
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## Power supply

7 to 24VDC

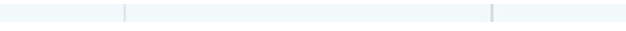
Typically supplied from the alarm panel / electric fence energizer via the cable provided.



## Operating conditions

Temperature -40 to 60°C

Humidity 0 - 90% RH



# Radio / Wireless Technology

## Connectivity

Simultaneous multi-path 4G / 2G & WiFi

## Mobile connectivity

2G and/or 4G depending on model & coverage.

Frequency Bands: LTE-FDD: B1/B3/B5/B7/B8/B20  
2G: GSM900, DCS1800

Antenna type: Internal

## SIM Cards

<b>South Africa:</b>	2 x Olarm managed local SIMS
<b>Global:</b>	1 x Olarm managed roaming SIM

## Mobile network switching

< 60s (Depending on network availability)

## WiFi

<b>WiFi standards:</b>	2.4GHz only - IEEE 802.11b/g/n
<b>Center frequency range of operating channel:</b>	2412 ~ 2484 MHz
<b>Antenna type:</b>	Internal
<b>Data rate:</b>	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)
<b>Tx Power:</b>	13 to 19.5 dB (Data rate dependant)
<b>Rx Sensitivity:</b>	-69 to -97 dBm (Data rate dependant)
<b>Encryption:</b>	WPA2-PSK
<b>WPS set up:</b>	Yes

## Encryption

TLS 1.2 / AES-128



# Configuration

Plug-and-play zero configuration via QR Code Scan in the Olarm APP.

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## Olarm APP users

Unlimited.

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The Olarm PRO 4G will require an active subscription to function. Please contact your installer or speak to sales@olarm.com for more information.

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## Certifications, accreditations & test reports

### Safety & Health

EN 62368-1:2014+A11: (2017)

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IEC 62368-1: (2014)

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### Electromagnetic Compatibility

ETSI EN 301 489-1: V2.2.3 (2019-11)

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ETSI EN 301 489-3: V2.1.1 (2019-03)

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ETSI EN 301 489-17: V3.2.4 (2020-09)

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ETSI EN 301 489-52: V1.1.0 (2016-11)

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EN 50130-4: 2011+A1: (2014)

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## Radio Spectrum Efficiency

ETSI TS 151 010-1 V12.8.0 (2016-05)

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ETSI EN 300 220-1: V3.1.1 (2017-02)

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ETSI EN 301 511: V12.5.1 (2017-03)

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ETSI EN 300 220-2: V3.2.1 (2018-06)

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ETSI EN 300 328: V2.2.2 (2019-07)

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ETSI EN 301 908-1: V13.1.1 (2019-11)

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ETSI EN 301 908-13: V13.0.1 (2019-08)

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## Included in the box

1x Olarm PRO 4G

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1x Reversible 1.5m Peripheral cable

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1x Mounting Template: Drill hole template and LED colour legend

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## ACCESSORIES

# Cables & Adapter Boards

OlarM PRO devices include a standard cable, but longer cables are available if needed. Additionally, an adapter board for selected IDS panels is offered for seamless integration.



**1.5m Cable**



**8m Cable**