Quickstart Octalarm-Touch

MEASURE - ALERT - CONNECT

1. Technical specifications

System properties		
Contact inputs	Voltage	30VDC Max
	V_{il}	<3V
	V_{ih}	>4V
	Note	• 10k pull-up to 12VDC • Input can be a contact to GND or a voltage
Relay contact	Max load	30VDC / 2A, 30VAC / 1A (resistive load)
Open-drain output	Max switch voltage	12V/300mA
	Output voltage	12V/120mA
	Protection	Short-circuit, thermal
USB (master)	Type	2.0
	Load	5V/500mA
I/O bus	Output voltage	12V/100mA
	Driver	ISL3152 met "external fail-save biasing"
PSTN	Line	RJ11
	Phone	RJ11
Ethernet	Type	10Base-T/ 100Base-T
	Auto MDIX	Yes
	Intended use	Indoor
Mobile network (GSM)	Bands	LTE Cat. 4
		3G HSPA+
		FDD LTE: B1/B3/B5/B7/B8/B20 TDD LTE: B38/B40/B41 WCDMA: B1/B5/B8 GSM: 900/1800
	Bandwidth	1.4/3/5/10/15/20 MHz
	Power	Class 3 (23dBm±2dB) for LTE FDD Class 3 (23dBm±2dB) for LTE TDD Class 3 (24dBm +1/-3dB) for TD-SCDMA Class 3 (24dBm +1/-3dB) for UMTS Class E2 (27dBm ±3dB) for EDGE 850/900MHz Class E2 (26dBm +3/-4dB) for EDGE 1800/1900MHz Class 4 (33dBm ±2dB) for GSM 850/900MHz Class 1 (30dBm ±2dB) for GSM 1800/1900MHz
Power consumption	Nominal	5 Watt
	Maximal	20 Watt
	Imax	0,22A
	Input voltage range	100 ... 240VAC +/- 10%, 50/60 Hz
Tag	Frequency	13.56MHz
	Max range	10mm
Lifespan (Calculated MTBF)	10.64 years, according to parts count method	

Enclosure and operating conditions	
Enclosures	Wall mouting
Dimensions (L x W x H)	280 x 242 x 42 (mm)
Weight	1360gr (with battery and GSM module)
Operating temperature	0°C ... +50°C
Storage temperature	0°C ... +85°C
Relative humidity	20% - 85% (non-condensing)
IP code	IP42
Operating altitude	Up to 2000 metres

Regulations	
EMC	EN 301 489-1 V2.1.1 / EN301 489-3 V1.6.1
LVD	EN-IEC 62368-1:2014 + AC:2015 + A11:2017 + AC:2017

2. Installation

2.1. Mounting

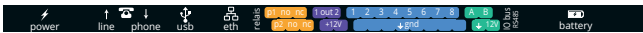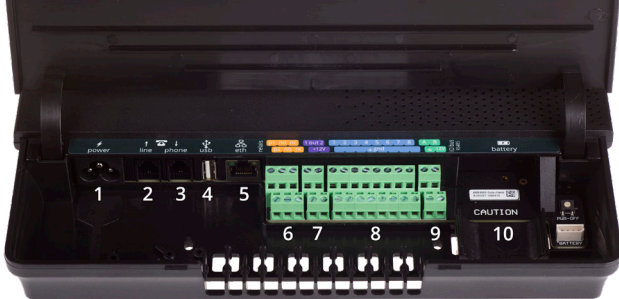The Octalarm-Touch housing is suitable for wall mounting:
- mount screws in the wall or panel;
- slide the device's mounting holes over them.

⚠ **Caution**: keep in mind that the screws must be able to support at least 1360 grams combined.

2.2. Connecting

The connection sticker shows how to connect the various cables.

Connector description		
1	Primary power (C5 connector)	power
2	PSTN line in (RJ11)	↑ ☎ line
3	PSTN Phone (RJ11)	☎ ↓ phone
4	USB port for service purposes	usb
5	Ethernet RJ45	eth
6	Relay contacts	p1 no nc / p2 no nc
7	Open-drain outputs	1 out 2 / +12V
8	Inputs	1 2 3 4 5 6 7 8 / ⏚ gnd
9	RS485 data connection	A B / ⏚ 12V / IO bus RS485
10	Connector for batterij	battery

2.3. Stable internet connection

You should connect the Octalarm alarm dialler to a stable internet connection. If a firewall is used in the corporate network, please refer to the information *What to do in case of a firewall in the corporate network (https://docs.octalarm.com/link/firewall/en-GB)*:

3. Components explained

3.1. Screen

Scherm pictogrammen		
1	Touchscreen	
2	RFID reader *(Keep the supplied RFID Tag within 10 mm of the RFID scanner.)*	

⚠ **Caution**: using sharp objects on the touchscreen may cause damage.
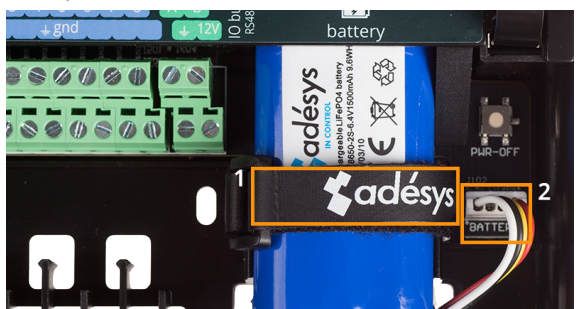
3.2. Power

Insert the supplied power cable into the S-shaped holder; this creates a strain relief.

⚠ **Caution**: the power supply cable must comply with IEC 60227-1.

3.3. Battery

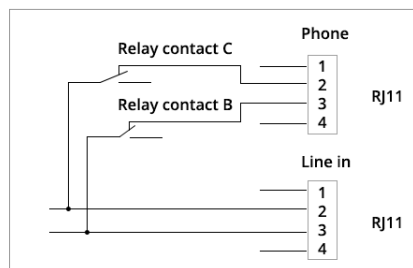| Battery compartiment	
1	Velcro fastener
2	Battery connector location

⚠ **Caution**: only use the battery for the Octalarm-Touch (A-Batt-6,4V) supplied by Adésys! This battery has been developed by Adésys, has been fully tested and has a communication chip.

3.4. PSTN configuration

You can connect the dialler to PSTN in 2 ways:

1. via a private PSTN line;
2. via a shared PSTN line with other equipment, such as a fax machine.

- In both situations, connect the PSTN line to the "Line" (RJ11) socket.
- Connect any other equipment to the "Phone" (RJ11) socket.

In this way, the PSTN line is never busy for alarm calls. However, due to a "Line-Seize" relay, all other PSTN devices temporarily lose their connection during alarms.

> ⚠ **Caution**: check the operation of the "Line Seize" relay immediately after installation and perform this test periodically.

3.5. Antenna

- Connect the desired antenna to the primary SMA connector (upper). You can use the supplied antenna (AA-114) if required.
- In case of poor reception conditions, a diversity antenna can be connected to the lower SMA connector.
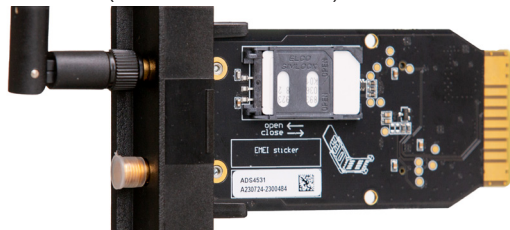
3.6. GSM module

Each dialler has a GSM module with an unactivated SIM card. You can activate this SIM card during onboarding (conclusion of the Octalarm Connect service).

Inserting your own SIM card

- Remove the GSM module from the device.

- Replace the SIM card on the back of the GSM module for your own SIM card (4G with LTE Cat-M1 band).

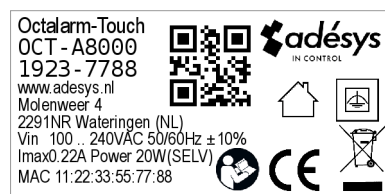- Slide the module back into the GSM compartment until it clicks.

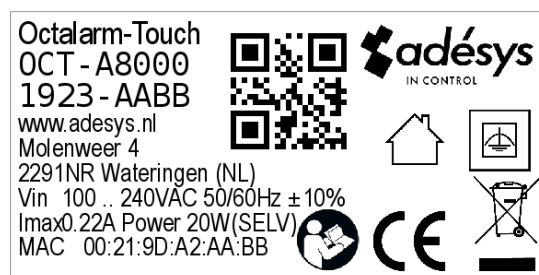### 3.7. EM-8001 (external module): number of inputs increased

The EM-8001 can be used to extend the number of inputs on the Octalarm-Touch to 16 or even 24 (max. 2 modules per alarm). The EM-8001 is connected to the Octalarm-Touch via the I/O bus (RS485).
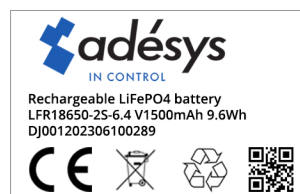
4. Labels

Label enclosure, Europe (51x25mm)

Label packaging, Europe (71x36mm)

Battery label, Europe (40 x 25mm)

5. Accessories included

Power cable
Length: 1,5 metres
Connector type: C5
Plug: EU-plug

Battery (A-Batt-6,4V)
Rechargeable LiFePO4 battery
LFR18650-2S
6.4 V/1500mAh
9.6Wh

GSM module
LTE Cat. 4 (sim card included)

Caution:
the SIM card is not activated by default. You can activate it during installation and use it to subscribe to Octalarm Connect.

Antenna (AA-114)
SMA connector

Tag
Number: 3 pieces
Type: RFID
13.56MHz

Quickstart
Installation manual in:
- English (EN)
- Dutch (NL)
- German (DE)
- French (FR)

6. Legislation and regulations

6.1. Safety rules

- Mount the device on a solid panel or wall.
- Mount the dialler below a height of 2 metres.
- Protect the Octalarm-Touch against a surge by using a grounded power connection.
- Do not use an outdoor ethernet connection directly, instead use a surge protected switch or router.
- Use the Octalarm-Touch in an indoor setting, the device needs to be protected from direct weather exposure.
- The device operates at temperatures from 0°C to +50°C. Using the Octalarm-Touch outside this temperature range may result in damage.
- This equipment is not suitable for use in locations where children are likely to be present.
- When recycling and/or disposing, take into account the regulations in force in your country.

Battery handling guide
- Only use the battery for the Octalarm-Touch (A-Batt-6.4V) supplied by Adésys. This battery has been developed by Adésys, has been fully tested and has a communication chip.
- Do not expose battery to temperature over +85°C or an open flame.
- Do not damage the Octalarm-Touch battery, for example by dropping, deforming, impacting, cutting or penetrating with a sharp object.
- Do not charge or discharge damaged battery.
- Keep the battery away from direct contact with liquids. Do not use if battery is wet or moist is visible.
- When recycling and/or disposing, take into account the regulations in force in your country.

6.2. Maintenance

- Change the battery every 3 years.
- Keep the screen clean of grease, water and dust.
- The calculated lifespan is 10.64 years. Replace the Octalarm-Touch after this period has elapsed.

6.3. Storage and transport

- Store and transport the product on a flat surface.
- There must be no flammable or explosive materials nearby.
- The storage temperature is between 0°C and +85°C.
- Do not store this product in a place exposed to direct sunlight.
- It is not recommended to have the dialler disconnected from the mains for more than a year, because:
  - the internal clock will then lose the correct time/date;
  - this negatively affects the battery life.

6.4. Malfunctions and repairs

When a fault has occurred please contact Adésys service helpdesk. By opening the Octalarm-Touch the warranty is void. Repairing the Octalarm-Touch is only allowed by Adésys appointed experts.

6.5. Recycling and disposal

If the Octalarm-Touch or the battery is at the end of its service life, please observe the regulations in force in your country when disposing of it.

6.6. Warranty and liability

Each product is subjected to a series of comprehensive tests by Adésys before shipment. The warranty claim is void when:
- the defect has been caused by gross negligence or incompetent installation;
- repairs and/or modifications have been made to the equipment without permission from Adésys;
- the serial number is removed or damaged.

Adésys products do not offer a 100% guarantee against damage, but are only a tool to prevent damage. Therefore, please discuss the remaining risk with your insurer.

All our transactions are subject to the Terms and Conditions of the 'Metaalunie' 2019, filed at the Registry of the District Court in Rotterdam on 1 January 2019.

In accordance with article 13 of these Terms and Conditions of the 'Metaalunie', Adésys accepts no liability for consequential damage caused by inexpert use of, and/or faults in its products.

In addition to the applicable Terms and Conditions of the 'Metaalunie', both Clients and Contractor are obliged to comply with the applicable laws and regulations relating to sanction countries.

6.7. Fields of application | Certification

Adésys products are only provided with a CE quality mark, which makes them exclusively suitable for application within the European Economic Area (EEA).

How to optimally use your dialler

Create a free account at **portal.octalarm.com**
- ✔ Remote setup and management
- ✔ View current status alarms
- ✔ Installer can provide remote support
- ✔ Possible to use app "Adesys Alarm"

1

Download the free app **"Adesys Alarm"**
- ✔ Access your dialler(s) literally from your pocket
- ✔ High priority alarms always on your mind
- ✔ Location alarm immediately visible via app alarm

2

Activate **Octalarm Connect**
- ✔ Reliable VoIP / SIP and GSM calling connection set up in one go
- ✔ Fixed price per month (flat fee)
- ✔ 24/7 secured duplicate servers

3

Complete manual available on website

https://docs.octalarm.com/link/manual-octalarm/en-GB

Please consider the environment before printing