

EQTrace Key WLAN

Information:



Functionality

The EQTrace T (with connection for key module: T-Key) is a GPS monitoring device which provides the following functions:

- collection of operating data on 1 input
- detection of the current position
- theft protection function
- logbook function (for vehicles)
- worldwide use
- activation via electronic key (optional, T-Key)
- switching off of the machine or function, 1 output

Due to the simple installation and the minimal power consumption during sleep mode it can be used in many areas. A few examples: motor vehicles, construction machines, trucks, boats, electric bicycles, motorcycles, etc.

All data will be transmitted to the Obserwando-Server www.obserwando.de via mobile internet (GPRS). It can be accessed via the Obserwando-Portal with the corresponding vehicle name. The vehicle position can also be accessed from your Android, Windows 10, iPhone or smartphones.

The SIM card is part of the yearly flat rate. When delivered it will already be installed and activated.

Installation

The EQTrace T/T-Key should be installed horizontal, with the flange side at the bottom and distant of shielding metal pieces to provide the best GPS reception. The device can be installed under plastic covers but under no circumstances under metal.

The case can be painted in the same color as the vehicle. However, no metallic paint is allowed.

EQTrace T/T-Key can be used in vehicles and machines with operating voltage of up to 60VDC. Thus, it can be installed in cars, trucks, construction machines, lifting platforms or forklifts. In case of higher operating voltage a voltage transformer (e.g. TR20-150 or TR-230VAC) is required.

To ensure theft protection when the vehicle is turned off the device needs to be connected to a continuous voltage of 10...60VDC.

LED - states

The installed LED's can display the following states when operating voltage is supplied:

Red LED

1. LED flashes every 2 seconds: The device is on.
2. LED flashes every 5 seconds: The device is in energy saving mode.
3. LED flashes two times every 5 seconds: The device is awake, i.e. sending data, in energy saving mode.

Green LED

1. LED is off: The device is not connected to the GSM network and has no GPS signal.
2. LED flashes shortly every second: The device is connected to the GSM network, but has no GPS signal.
3. LED flashes long every second: The device is connected to the internet and server, but has no GPS signal.
4. LED flashes long and two times shortly every second: The device is connected to the internet and the server, and has GPS signal.

The LED's are at the bottom of the device. When installed they are covered (manipulation and theft protection). The allocation can be obtained from the type plate.

Wiring table:

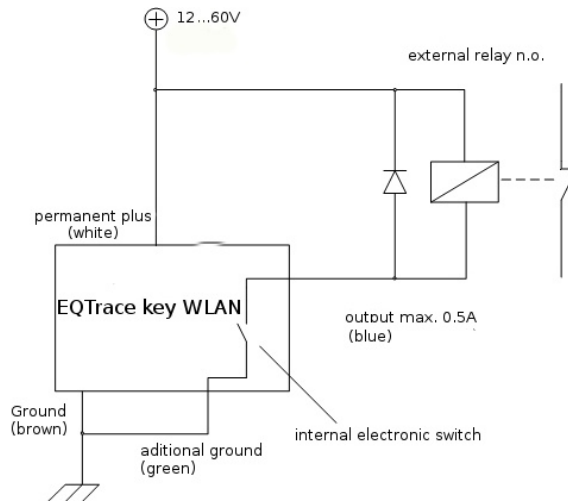
white	VPP (plus, max)
brown, green	GND (minus)
yellow	Input 1 (ignition)
grey	Output (max 500 mA, switched against minus)

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Wiring of the relay (EQTrace T-Key)

One output of the EQTrace T/T-Key is available to block one function of the used vehicle. (e.g. the starter for vehicles, lifting for platforms, etc.)



Warning:
When switching inductive load (e.g. power relays) a free-wheeling diode needs to be used.



Connecting the key module

The 5 pole plug will be inserted into the jack of the EQTrace T-Key-Module. When the function is activated on the Obserwando server and the user is authorised to operate the vehicle, keys will be automatically detected.

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Technical Details

Dimensions:	105 x 73 x 35 mm			
Operating voltage:	10 – 60 VDC			
Operating temperature:	-35° C to +65° C			
Power consumption:	Idle mode:	12V 25mA	24V 20mA	48V 25mA
	Sendemodus:	120mA	70mA	40mA
	Sleep mode:			
Internal battery:	Capacity 1050mAh	8,9mA	7,7mA	7,3mA
	- Power consumption increases while charging the internal battery.			
Inputs:	1 input			
Outputs:	1 shortcircuit proofed output (up to 0.5A); output wired to GND			

Box content

1. EQTrace T/T-Key inclusive connection cable 2m