

TA-SCOPE Relay



Instruments

Wireless transmission relay

| Engineering **GREAT** Solutions



TA-SCOPE Relay

TA-SCOPE relay is a long-range transmission relay for measuring, balancing and diagnosing hydronic systems with multiple TA-SCOPE sensors. It is to be used in particular for applying the TA-Wireless method with the TA-SCOPE in large buildings.

Key features

- Long range wireless transmission Range between two relays reaches 5 to 6 floors indoor.
- Easy configuration A software wizard integrated in the TA-SCOPE takes you step-by-step through an illustrated configuration process.
- Long-standing batteries
 Fully charged TA-SCOPE relays
 provide three days of power-efficient
 wireless performance.



Technical description

Applications:

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It is to be used in particular for applying the TA-Wireless method with the TA-SCOPE in large buildings.

Configuration:

In order to configure long-distance transmission with the optional TA-SCOPE Relays select Configure Relays in the Options menu.

A software wizard takes you step-by-step through the configuration process. The option Add intermediate Relays allows adding more intermediate Relays to an existing relay configuration.

Ambient temperature:

During operation: 0°C - +40°C During charging: 0°C - +40°C During storage: -20°C - +60°C

Humidity:

Ambiant humidity: max 90% RH

Battery capacity, operating and charge times:

Capacity: 4 400 mAh
Operating time: >25 h
Charge time to full capacity: 6-7 h
Remark: Replacing the battery by
another type is strictly forbidden and
could lead to an explosion.

Wireless:

Between two relays: 868 MHz – EC version. 915 MHz – FCC version.

Range in open space: approx. 500 m. Range indoors: approx. 5-6 floors.

Enclosure class:

IP 44

Colour:

Black

Charger:

Output voltage: 5,2 V DC (minimum 5,0 V,

maximum 5,3 V)

Output current: Minimum 1 A.

Isolation: Class II.

Certification: IEC (868 MHz) and/or UL,

CSA (915 MHz).

Complying with the LPS (Low Power

Source) regulation.



Functions

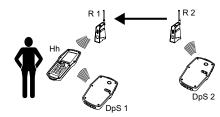
The TA-SCOPE relay is a high power transmission relay allowing to receive measurements performed by multiple TA-SCOPE Dp sensors located across a whole building.

It uses 868 MHz (Europe) or 915 MHz (US) radio for obtaining a large transmission range and bridges this signal with the 2,4 GHz used by the TA-SCOPE handheld and Dp sensors.

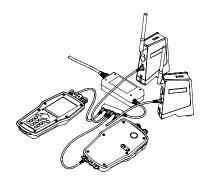
The elementary configuration is:

- Relay 1 near the operator
- Relay 2 near the second Dp sensor

If larger range is needed, up to 5 intermediate relays can be added.



Hh = Handheld DpS = Dp Sensor R = Relay



Charging

Charging of TA-SCOPE relays is performed by using the multicharger available in the TA-SCOPE case.

Operation

For best wireless range

Install the relays

- at some height (1 2 m) from the floor
- not too close to reinforced concrete walls
- not on a wet surface

Use technical shafts when available as channel for the radio waves (see Fig. 1).

Place relays near windows or outdoor to extend propagation of radio waves in larger buildings (see Fig. 2).

Fig. 1

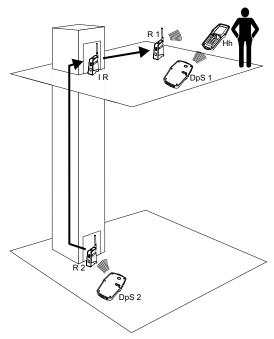
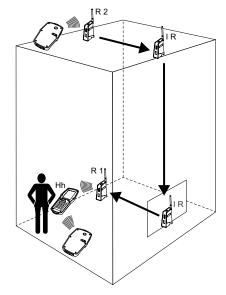


Fig. 2



IR = Intermediate Relay

Articles



Relay

1 DC cable per relay included.

Version		L	H1	H2	В	EAN	Article No
Relay kit, case with 3 relays (2 Kensington locks and 1 belt clip included)							
868 MHz	Europe	90	130	100	45	7318793998903	52 199-961
915 MHz	US/AU/NZ	90	130	100	45	7318793999009	52 199-962
Relay, separate							
868 MHz	Europe	90	130	100	45	7318793999108	52 199-963
915 MHz	US/AU/NZ	90	130	100	45	7318793999207	52 199-964

Accessories



Multi-charger

With 6 DC cable connection points. Excl. AC and DC cables.

E	EAN	Article No
		310 395-01



DC cable

To connect a device to the multi-charger

EAN	Article No
	310 397-01



AC cable

Version	EAN	Article No
Europe		310 396-01
UK		310 396-02
US		310 396-03
AU/NZ		310 396-04

