

	HPS 58		For	Hpa975
	Radio receiver module at 2.4 GHz		Hpa974	Hpa977

Description



Hps58 is a 2,4 GHz radio receiver module, it allows to give three different signals output through the below radio's reception device memorised to the safety system.

HPA974 Three push-button remote control		<p>Functioning with HPA 974</p> <p>By pressing the <u>first</u> push-button of the remote Hpa974 you get the OUT 1 (negative – PINK wire) for 3 seconds</p> <p>By pressing the <u>second</u> push button of the remote Hpa974, you get the OUT 2 (negative – BROWN wire) for 3 seconds.</p> <p>By pressing the <u>third</u> push button of the remote Hpa974, you get the OUT 3 (negative – ORANGE wire) for 3 seconds.</p>
HPA977 Radio transponder		<p>Functioning with HPA 977</p> <p>The radio reception of transponder Hpa 977 activates all the MODULE OUTPUT for 25 seconds.</p> <p>The time will be reloaded in transponder radio receiving case.</p> <p>Please note: the Hpa977 receiving is permitted only with the ignition key present, (pin 2 of the connector) and it lasts 50 seconds by its switching off.</p>
HPA975 Wireless sensor		<p>The radio reception if a wireless sensor Hpa975 activates all the MODULE OUTPUT for 3 seconds.</p>

Programming a new radio devices memorisation

The Hps 58 is equipped with an internal programming push button and an internal LED that shows its functions. In order to access the programming you need switch ON the ignition key of the vehicle and press internal push button a number of times equal to the corresponding function (ex. for programming n° 5 you push the button 5 times). The fast flashing of the internal LED shows that the programming is active.

The consecutive flashing of the LED shows the result of the programming:

- **1 LED FLASH:** Confirms that the selected programming exists and it has been **activated**.
- **2 LED FLASHES:** Confirm that the selected programming exists and it has been **deactivated**.
- **3 LED FLASHES:** Specify that is not been selected a valid programming

N° Push button pressing	Function
4	Self-learning remote alarms Hpa 975

5	Self-learning radio controls Hpa 974 and transponder Hpa 977
6	Time setting of the outputs from 3 sec. (default) to 1 sec. in case of receiving an Hpa 974, and/or Hpa 975 valid
7	Set the output logic to reverse of the output n° 1 (default is signal present in case of command received)
8	Set the single output command (instead all outputs) in case of radio transponder HPA977 reception)
14	Erasing of stored radio devices Hpa 974 and transponder Hpa 977
15	Erasing of stored wireless sensor Hpa 975

4 – Self-learning HPA 975

Once started the procedure, the internal LED of Hps 58 will flash quickly than by insert the battery inside the sensor or to induce a transmission moving away the magnet to the sensor in order to store the code of the device inside the Hps 58 memory. The succeeded memorisation will be confirmed by LED flashing (1 sec) of the Hps58. In case of other devices need to be stored repeat the procedure wrote for each sensor you need to store. The procedure ends after 30 sec after last operation (timeout), by switching off the ignition key of the vehicle or by pressing again the programming module push-button. You can memorize max 10 Hpa 975. The following ones (after the 10) will substitute the others with a circular buffer (last in → first out).

5 – Self-learning HPA 974 and Hpa 977

Once started the procedure, the internal LED of Hps 58 will flash quickly than by pressing a push-button of the radio control (HPA 974) or by insert the battery (Hpa 977), The succeeded memorisation will be confirmed by LED flashing (1 sec) of the Hps58. In case of other devices need to be stored repeat the procedure wrote for each sensor you need to store. For safety issues every starting of the organisation and self learning of the first device, the ones pre-emptively will be cancelled, the obtain is that every radio command or transponder that will be used with the device, will be memorised in the same phase. The procedure ends after 30 sec after last operation (timeout), by switching off the ignition key of the vehicle or by pressing again the programming module push-button. You can memorize max 5 devices between Hpa 974 and Hpa 977). The following ones (after the 5) will substitute the others with a circular buffer (last in → first out).

6 - Time setting of the outputs for Hpa 974 and Hpa 975

Set this function in case you need to set the output command time at 1 sec instead 3 (default). The programming will be confirmed by:

- 1 flash of the LED confirms output command time 1 sec.
- 2 flashes of the LED confirm output command time 3 secs (default).

7 - Set the output logic to reverse of the output n°1 with Hpa 977

Set this function in case you need to set the output logic reverse of the output 1. The programming will be confirmed by:

- 1 flash of the LED confirms output signal out 1 present in case of command received
- 2 flashes of the LED confirms output signal out 1 missing in case of command received

8 - Set the single output command in case of radio transponder HPA977 reception

Set this function in case you need to set only the OUT 3 (instead all three outputs) in case of transponder Hps 977 presence received. The programming will be confirmed by:

- 1 flash of the LED → OUT 3 will be reserved for transponder only.

- 2 flashes of the LED → transponder will command all output simultaneous

In case of set of this function, the device will work in the following way:

- Receiving a valid transponder Hpa 977 the device will command OUT 3 only.
- Receiving remote Hpa 974 the device will command:
 - Command OUT 1 in case of pressing the button 1
 - Command OUT 2 in case of pressing the button 2
 - Command OUT 2 in case of pressing the button 3
- Receiving a wireless sensor Hpa 975 the device will command OUT 1 and OUT 2 only

14 – Erasing of stored radio devices Hpa 974 and transponder Hpa 977

It allows the delete the devices Hpa 974 and Hpa 977 memorised. The cancellation of the devices will be confirmed by one flash of the LED.

15 - Erasing of stored radio devices HPA 975

It allows the delete the devices Hpa 975 memorised. The cancellation of the devices will be confirmed by 1 flash of the LED.

Hps 58 Connection diagram list:

pin out	Wire colour	Name of out	Function	Type of output
1	ORANGE	OUT 3	Positive output	Open Collector
2	WHITE	+15 Ign.	Injection input	-
3	BROWN	OUT 2	Negative output	Open Drain Pull Up 33KΩ
4	PINK	OUT 1	Negative output	Open Drain Pull Up 33KΩ
5	RED	Positive fix	Positive of Power supplier	-
6	BLACK	GND (-)	Negative of Power supplier	-

Technical information:

Power supply:	7 V ÷ 28 V
Temperature of work:	-40°C ÷ +85 °C
Max sink current OUT 1/2 (negative):	2 A
Max current source OUT 3 (positive):	50 mA
Consumption without IGN (output w/o load):	≤ 1 mA
Consumption wit IGN (output w/o load):	≤ 15 mA
Δ Consumption with negative output ON:	≤ 0,5 mA (without load)
Δ Consumption with positive output ON:	≤ 1,6 mA (without load)

Conditions of warranty

PATROLLINE guarantees the device against manufacturing defects for a period of 24 months from the date of delivery. The warranty consists in free replacing or repairing of parts unusable or inefficient because of factory's fault verified by Patrolline. Any delay in carrying out works do not entitle to damages or extension of warranty. The warranty lapses if the devices are used not in conformity with the present conditions, if they are modified, repaired or tampered, if the defects derive from accidents, from negligence or from using parts not original. What above-mentioned is the only warranty, that therefore substitutes the legal one. The buyer has not the right to ask for the annulment of the contract, to claim compensation or price reduction.

RESPONSIBILITY: Patrolline has no responsibility or obligations for any accident and/or damage to things/people that could occur using the device.

LIMITATIONS: the buyer undertakes to not to use the device for purposes different from the ones it is for, and to not to modify its construction and its functioning. Saved any possible action of compensation for damages, it is agreed that the non-observance of the regulations above-mentioned involves the immediate end of the right of warranty.

The validity starts from the date of delivery (that is the date of the first installation) signed on the warranty special coupon with the receipt attached or a copy of the invoice. Without these documents, the warranty will start from the date of manufacturing.

Warning The alarm must be installed by a qualified person following carefully the indications of the manufacturer.

INSTALLATION CERTIFICATE

The undersigned _____

Professional installer, certify that the installation of the vehicle protection device described below has been done in conformity with the instructions given by the manufacturer.

Description of the vehicle protection device:

Model and Serial Number _____

Place and date of the installation: _____

MALFUNCTION (minutely describe the problem):

Stamp and signature of the installer



PATROLLINE GROUP

Via C. Cantù 15/C, 22031, Albavilla (CO), ITALY

Tel: +39 031.035.2088 Fax: +39.031.035.2089

E-mail: info@patrolline.it Web: www.patrolline.it