

DS1

Radio command digital selector



PUK CODE

Use and installation instructions and warnings

GB 1 Warnings

- Before starting installation, make sure that the product is suitable for the intended use, giving particular attention to the data indicated in the "Technical Specifications" chapter.
- MHOUSE are not responsible for damages caused by the improper use of the product that is different from that specified in the present manual.
- The packing materials must be disposed of in compliance with local regulations.
- The digital selector must be kept at a sufficient distance from heat sources and naked flames which could cause damage, malfunctions or dangerous situations.
- **WARNING:** The digital selector batteries contain polluting substances: do not dispose of them together with other waste but comply with the methods established by local regulations.
- Specific warnings regarding the intended application of this product in relation to the "R&TTE "1999/5/CE directive.
 - This product complies with the essential requisites specified by section 3 of the "R&TTE" Directive regarding the use for which the product is destined for in this instructions manual; the use of this product for purposes other than those for which it was intended is prohibited.
 - The usable radio frequency range is subject to national legislation; the countries in which this product can be used are; all countries within the European Community and Switzerland.
 - Those responsible for installation should verify if the use of the products frequency is permitted, if the country in which the product is to be used is not mentioned in the point above.

2 Product description and applications

The DS1 digital selector (Fig. 1) is a radio transmitter that, after having typed in the correct secret combination, permits the remote control of corresponding radio receivers or gate or tubular motor control units and can only be used for MHOUSE automation systems.

The combination is typed in by means of the 10 buttons [X] in fig. 1 (from 0 to 9), while the 3 buttons [Y] in fig. 1 are used to send the 3 types of commands to a similar automation or to control up to 3 different automations or receivers.

Another button [Z] in fig. 1 is used when there is little light, which lights the buttons so that the combination can be easily introduced.

A series of rapid Beeps confirms that the command has been sent during transmission.

The DS1 has an IP protection level which makes it suitable for external use.

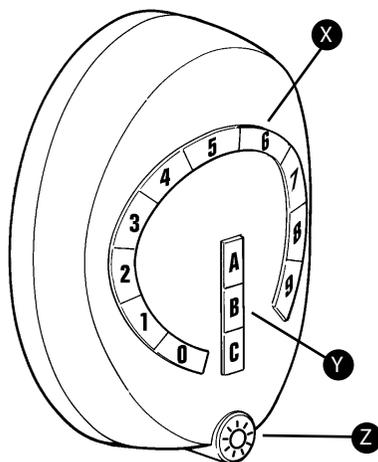


Fig. 1

3 DS1 remote memorisation

If another remote control has already been memorised on a control unit, radio receiver or tubular motor, the DS1 digital selector can be memorised as described below. Whereas, if a transmitter has still to be memorised, the instructions related to the product to be commanded must be consulted to perform the "memorisation of the first transmitter"; consult the site www.mhuose.biz if the original instructions of the product are not available.

The memorisation procedure may change depending on the product, therefore the original instructions should be referred to.

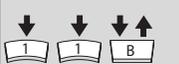
A new DS1 digital selector can be memorised without having to use the control unit buttons or the radio receiver.

All that is needed is a working transmitter that has already been memorised which we will call " OLD ".

DS1 "inherits" the characteristics of the OLD transmitter. Therefore, if the OLD transmitter is memorised in "mode I " then the DS1 will also be memorised in "mode II ". In this case a transmission button of any of the two transmitters can be pushed during the memorising phase.

Whereas if the OLD transmitter is memorised in "mode II " the desired command button on the OLD transmitter must be pressed as well as the button to which you wish to associate that particular command on the DS1 transmitter.

Perform the following steps with the digital OLD transmitter and selector DS1 placed close to the control unit, receiver or tubular motor:

Table "A"	Remote memorisation	Example
1	Type in the secret combination (factory setting: " 11") on the DS1 digital selector, then push a transmission button for at least 5" and then release.	 5s
2	Slowly push the button on the OLD transmitter 3 times.	 X3
3	Type in the secret combination on the DS1 digital selector, then slowly push a transmission button once (the same that was used in step 1), then release it.	

At this point the DS1 digital selector is recognised by the control unit, receiver or tubular motor and will take on the same characteristics as the OLD transmitter.

4 Installation

Ideally a test should be made to ascertain the functioning and effective range before actually fixing the DS1.

The place in which the DS1 is to be fixed should also be carefully considered.

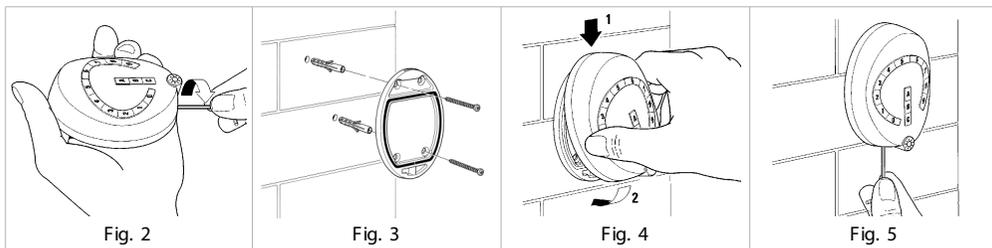
In addition to the distance from the receiver, avoid positioning it close to, or even worse, on metal structures that could create a shield.

Place the DS1 digital selector on the wall to which it is to be fixed and perform a transmission to ensure that the receiver receives the command that has been sent.

Also take into consideration that when the batteries are flat the range can be reduced by 25÷30 %.

Once the functioning has been assured, fix the DS1 at a suitable height as follows:

- Unscrew the retaining screw Fig.2
- Remove the base of the digital selector and screw it to the wall Fig.3
- Connect the digital selector to the support fixed to the wall, hooking it to the upper part of the support Fig.4
- Fix the selector to the support with the retaining screw Fig.5



5 Usage

The DS1 digital selector emits a tone each time a button is pushed confirming that it has been performed correctly.

The DS1 cannot send a radio command until the command transmission has been enabled through the introduction of the secret combination, after which the A B C buttons can be pushed to send the command as if the DS1 was a normal radio transmitter.

The factory set combination of " 11 " can be changed at any time as described in the "Change of combination" chapter.

The secret combination is composed from a minimum of 1 number to a maximum of 10 numbers (for example: 5 or 5566778899).

If no buttons are pushed within 10 seconds the combination will have to be introduced once again in order to send another command.

If the combination is incorrectly introduced, three rapid notes are emitted (beep-beep-beep) when the transmission is attempted that indicate that the combination has been incorrectly typed in.

To make the introduction of the combination easier, the buttons can be lit up at any time by pushing button [Z] in Fig. 1.

6 Change of combination

The secret combination can be changed at any time as long as the present combination is known.

To change the combination, proceed as described in table "B".

Table "B"	Change of combination	Example
1	Push button ☀ [Z] of fig. 1	
2	Type in the present combination	
3	Push button ☀ [Z] of fig. 1	
4	Type in the new combination (max 10 numbers)	
5	Push button ☀ [Z] of fig. 1	
6	Type in the new combination again (max 10 numbers)	
7	Push button ☀ [Z] of fig. 1	
8	Three beeps are emitted if the operation has been successful otherwise 5 rapid beeps are given indicating that one of the steps was unsuccessful.	

NOTE: If one wishes to use DS1 without having to introduce a combination, a combination with no numbers can be introduced by not pushing the buttons at points 4 and 6 of table "B".

If the combination is forgotten it can be changed by repeating the above mentioned points and introducing the special "PUK code" instead of the combination at point 2 of table "B".

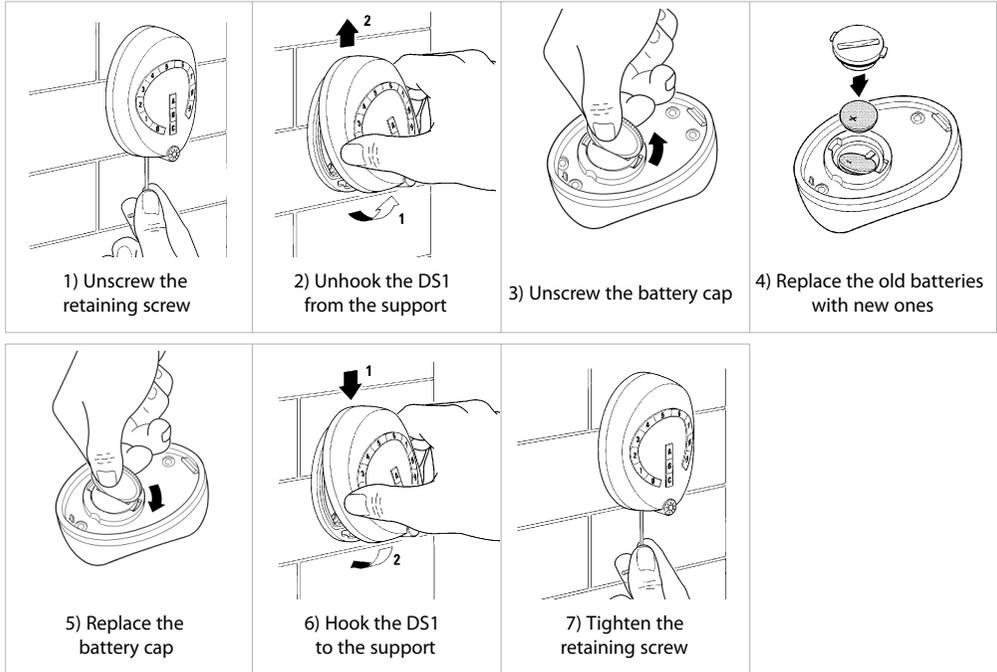
Each DS1 has its own individual 10 digit "PUK" code which can be found on the front cover of this manual.

7 Replacement of the batteries

When the digital selector range is significantly reduced and/or 10 rapid beeps are emitted when switched on, this means that the batteries are flat and require replacement.

The digital selector contains two CR2430 lithium batteries.

If the DS1 is used in freezing temperatures (below -10°C) flat battery signals may be given even if the batteries are still partially charged.



8 Maintenance and Disposal

DS1 does not require any particular maintenance.

This product is made of various types of materials, some of which can be recycled while others must be disposed of. Enquire about the recycling or disposal systems available in compliance with regulations locally in force.

Warning: some electronic components may contain polluting substances; do not pollute the environment.

9 Technical characteristics

DS1 is produced by NICE S.p.a. (TV) I, MHOUSE S.r.l. is an affiliate of the Nice S.p.a group.

Nice S.p.a., in order to improve its products, reserves the right to modify their technical characteristics at any time without prior notice. In any case, the manufacturer guarantees their functionality and suitability for the intended purposes.

Note: all technical specifications refer to a temperature of 20°C.

DS1 digital selector	
Type:	Digital radio selector with digital combination for the control of awnings, rolling shutters, gates and door automations.
Adopted technology:	AM OOK coded modulation of radio carrier.
Frequency:	433.92 Mhz
Code:	Rolling code with 64 Bit code (18 billion million combinations)
Irradiated power:	approx. 0.0001W
Power supply:	6V +20% -40% with two CR2430 type lithium batteries
Battery life:	2 years, estimated on the basis of 10 commands/day, each lasting 1" at 20°C (at low temperatures the efficiency of the batteries decreases)
No. of combinations:	9.999.999.999
Operating temperature:	-20 ÷ 55°C
Use in acid, saline or potentially explosive atmosphere:	No
Protection class:	IP44 (for external use)
Dimensions / weight:	L 65 x H 95 x D 33 / 260g

Downee

Exclusive Australian Distributor

Customer Service (03) 9364 8288

See downee.com.au for your state office

Tech Support 1800 241 733 techsupport@downee.com.au

downee.com.au

Mhouse
Via Pezza Alta, 13 - Z.I. Rustignè
31046 Oderzo TV Italia
Tel. +39 0422 20 21 09
Fax +39 0422 85 25 82
info@mhouse.biz
www.mhouse.biz

