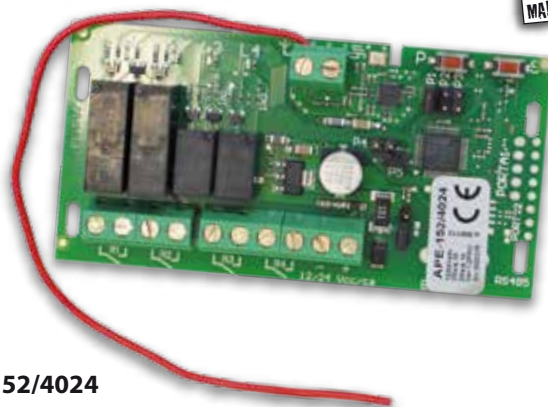


"Universal" self-learning receiver

COPY-ONE



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cod.
APE-152/4024

Assembly and use instructions

INSTALLATION AND OPERATION MANUAL

1 - General information



The universal receiver allows extreme versatility in both new and existing installations. It is extremely flexible: it allows storing different remote controls, with fixed and rolling codes, and with different frequencies inside a single receiver. Therefore, the universal receiver allows, in most cases, to unify installations or to replace receivers no longer operating without replacing the existing remote controls, thus ensuring better service continuity and less discomfort for users.

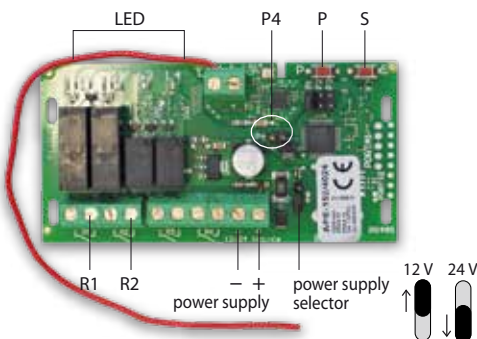
Power supply	Relay contacts	Max storable codes
12-24 Vac	5A-250VAC	200 max
12-24 Vdc	3A-30VDC	



Attention: every button corresponds to one code, and so a transmitter with 4 buttons will be stored in four different positions.

2 - Technical data

- LED = activation output LED1, 2, ...
- P = programming button
- P4 = jumper for self-storage
- S = operating mode setup button
- R1 = output channel 1
- R2 = output channel 2



3 - Programming

Programming your receiver will allow you to pair a transmitter with one or more relays of the receiver. In order to start, press button P and the LED of the corresponding output will begin to flash. Before storing, repeatedly press button P to select the desired output. Now, hold down the button of the transmitter that you want to pair until it is completely stored (every LED will light up for half a second).

To store more than one relay for a single button of the transmitter, repeat this sequence for each one of them. During storing, there may be different LED indications:

FLASHING LED OF THE RELAY: storing phase: the pressed button of the transmitter is connected to the flashing relay.

LED OF THE RELAY SLOWLY FLASHING TWICE: the button on which you are storing may be a HCS requiring SEED, an unknown HCS or a FAAC XT, GENIUS JCL, V2 or AVIDSEN transmitter. The LED of the relay is firstly illuminated for a few seconds, and then it will slowly flash twice. If the transmitter can transmit the SEED (general HCS, V2 and AVIDSEN), keep pressing the button you are trying to store: it will be stored as a fixed code. Keep pressed until the storage is completed.

Attention: for a FAAC/GENIUS transmitter, to store it in the receiver press the desired button until the corresponding LED of the relay in the receiver remains on, and then release the button of the transmitter. Now, press button 1 and 2 in order to access the programming mode (the blue LED on the transmitter will begin to flash) and hold down the desired button to store.

ALL LEDS ON: transitional phase: it indicates that the storing has been completed. You can now release the button on the transmitter. Then, you will see the kind of transmitter that has been stored (see the following table).

LED 1	LED 2	LED 3	LED 4	Description
On	Off	Flash	Off	The number of flashes indicates the kind of transmitter that has been stored



- n°1 FLASH: transmitter stored as registered
- n°2 FLASHES: transmitter stored as rolling HCS
- n°3 FLASHES: transmitter stored as fixed HCS

4 - How to remove a stored transmitter

To remove a transmitter, you have to follow a similar procedure as for programming. In order to remove a transmitter, press button P. While the corresponding LED of the relay is flashing (programming phase), press button S. Now the receiver has all the LEDs on (removing mode); press the button corresponding to the transmitter you want to remove, and keep it pressed until all the LEDs turn off. The transmitter has now been cancelled.

5 - Different output modes

The outputs of the receiver can be programmed to work in four different modes: on/off, impulsive, timer (seconds), timer (minutes). You can select and set up these modes in every moment.

Press button S for 5 seconds to access the mode setup. The LED corresponding to the output will flash depending on the mode (see diagram here below). To change output, press button S. Once you are on the desired relay, press button P to change the mode until you achieve the one desired. In order to save, wait until all the LEDs stop flashing and the receiver "turns off", or press S until you exit the mode setup. The default setup for every output in the receiver is "impulsive" mode. When pressing button P to change the output mode, the following order is given:

ON/OFF > IMPULSIVE > TIMER (SECONDS) > TIMER (MINUTES) > ON/OFF.



- n°1 FLASH: ON/OFF mode
- n°2 FLASHES: IMPULSIVE mode
- n°3 FLASHES: TIMER (SECONDS) mode
- n°4 FLASHES: TIMER (MINUTES) mode

ON/OFF MODE: in this mode, the output is bistable. By pressing the stored button of the transmitter once, the output will close and by pressing again, the output opens. The receiver keeps the same output until another paired transmitter is not pressed.

Attention: the lack of power supply will cause the output to go back to its neutral state (open).

IMPULSIVE MODE: in this mode, by pressing the button of the associated transmitter, the output relay will remain active until the button is released.

Attention: potential disturbances to reception can turn the output off even if the button of the device is still pressed.

TIMER (SECONDS) MODE: in this mode, you can set a time, in seconds, after which the output will turn off. The default setting for the timer is 30 seconds.

Attention: the timer will start again every time that a transmitter paired with that specific output is pressed.

TIMER (MINUTES) MODE: In this mode, you can set a time, in minutes, after which the output will turn off. The default setting for the timer is 30 seconds.

Attention: the timer will start again every time that a transmitter paired with that specific output is pressed.

HOW TO SET THE TIMER (for both MINUTES and SECONDS mode): first, access the TIMER (SECONDS/MINUTES) MODE, then:

1. Press S for about 2 seconds: the LED will begin to flash regularly every second.
2. Hold down the button and count the number of flashes that you want to set as seconds or minutes (ex.: count 3 regular flashes to set the timer for 3 seconds/minutes).
3. Once you counted the desired number of flashes, release button S.

6- Jumper function

(P1) – RESERVED, (P2) – RESERVED, (P3) – RESERVED
 (P4) – JUMPER FOR SELF-STORING: by activating the jumper, the remote storage function will be activated: you can store a transmitter starting from another transmitter, previously associated with the receiver, following the indications given by the manufacturer.
 (P5) - RESERVED.

7 - Error message

It is possible to recognise an error message because LED 3 and 4 will flash, while LED 1 and 2 will be always on. To understand the error message, check the table for LED 3 and 4 here below.

LED 1	LED 2	LED 3	LED 4	Description
On	On	Flash	On	code not found
On	On	On	Flash	code memory: full
On	On	Off	Flash	frequency memory: full

CODE NOT FOUND: you are trying to remove a transmitter, but it has not been stored in the receiver or it has not been correctly recognised. Check if the transmitter has actually been associated with the receiver before, and try to follow the procedure again from the beginning.

CODE MEMORY: FULL: the memory of the receiver is full while you are trying to store another transmitter. Remove a transmitter that is not being used and try again.

FREQUENCY MEMORY: FULL: you are trying to store a transmitter with a different frequency from the ones that have been previously stored. Since the receiver has a limited frequency memory, it will not be possible to store the new transmitter. However, you can store other new transmitters with the same previous frequencies.

8 -Self-storing

This mode allows storing a transmitter starting from a previously stored transmitter, without working on the receiver. In order to use this mode, you need to activate jumper P4.

The transmitter that needs to be stored remotely must be of the same model and of the same brand of the original one; or, it must be a compatible model with the same radio code type and the same frequency of transmission, allowing the remote storage on the original receivers of the manufacturer.

9 - Self-storage with an original transmitter

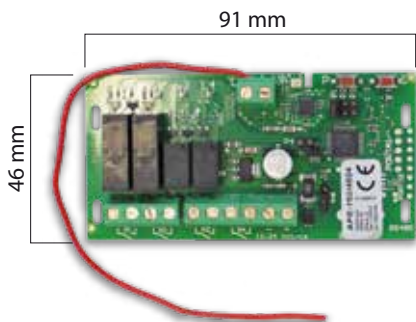
To store an original transmitter, follow the procedure here below. Be sure to stay around the receiver (about 2 metres). The steps 1 and 2 must be performed very close one to each other (not more than 15 seconds of distance). The same for the single operations described in point 2:

- 1 - Press the button of the receiver where the transmitter has already been stored (in doing so, the new transmitter will have the same combination of relay).
- 2 - Follow the self-storing procedure as described in the original transmitter user manual. Every instruction manual is different, depending on the manufacturer and on the model of the transmitter.

10 - Reset your receiver

To perform a general Reset on your receiver:
 1. Press and hold down button P and S for 10 seconds.
 2. Release the two buttons when all the LEDs begin to flash quickly.
 You may find this combination of flashing:

ALL THE LEDs ARE FLASHING QUICKLY: reset in progress. You can release button P and S. When the Reset is done, all the LEDs will turn off.



Operating temperature: -20°C, +60°C

OPTIONAL CASE



11 - Compatibility Table

BRAND	MODEL	BRAND	MODEL
ACM	TX2, TX2 COLOR, TX4	KLING	KUA2/4, KUA 4E, KUA4S
ADYX	TE4433H BLUE, 433-HG BRAVO	LABEL	SPYCO
AERF	COMPACT, HY-DOM, MERCURI B, MERCURI C, SABUTON, MARS, SATURN, ST3/N, TERRA, TMP-1, TMP-2, UNITECH	LIFE	FIDO 2/4
ALLMATIC	BROWN, BROWN RED, BRO.OVER, PASS, MINIPASS, TECH3	LINEAR	MCT-11 1, MCT-11 3, ACT-21, ACT-22, STING RAY ACT-31, STING RAY ACT-34B
APERTO (Sommer)	4020-TX03-434, TX02-434-2, TX02868-2	MERLIN 2.0	E945M, E943M, E940M
APRIMATIC	TR, TM4	MERLIN/PROLIFT	C945, C940, C943, M842, M844
ATA	PTX4 BLU, PTX4 PINK	BRAND	MODEL
AVIDSEN	104251, 104250, 104250 OLD, 104250 RED, 104257, 104350, 654250	MILENY	MILENY 1/2/3/4
BALLAN	FM400, FM400E	MHOUSE	TX3, TX4, MOOVO, GTX4
BENINCA	TO. GO. WV, TWV, IO, ROLLKEY, AP-LE, LOT WCV, CUPIDO, TO.GO. QV	NEO	NORTON, ROPER
BFT	MITTO M, MITTO RCB, MITTO A, TRC, GIBILI, MURALE, KLEIO	NICE	SMILO, FLO-R, VERY-VR, ERA-FLOR, ONE, ERA ONE, INTI, ERGO, ON2/4/9E, ON 868 2/4, ON 24E 868 FM, PLANO
CARDIN	TRQ S449, TRQ S449 GREEN (PRECODE), TXQ S449, TXQ S449 GREEN, TRQ S486, TXQ S486, S437 TX, XRADO	NOVOFERM	MCHS, MINI-NOVOTRON 504, MICRO-NOVOTRON 502, MICRO-NOVOTRON 504, MICRO-NOVOTRON 31, MICRO-NOVOTRON 51, MINI-NOVOTRON 30, MINI-NOVOTRON 50, MNHS, NOVOTRON, MINI-NOVOTRON 502
CASALI	JA33 AMIGO, GENIUS/CASALI A252(4)RC	O&O	TX, ELIOT, T.COM R4-2, T.COM R8-2, TWIN, TX2/4 (NEO)
CASIT	BE HAPPY S, BE HAPPY S AZUL, MPSTFRC, MTE, VTM	PECCININ	TX MEMBRANA, TX EVO, TX 3C, TX INTI, TX UNO, TX DUE
CHAMBERLAIN/ LIFT MASTER/ MOTOR LIFT	953ESTD, 371 LM, 971 LM, 84330E, 94334CE, 94333E/94334E/94335E, 9747E/, 1A56339/7, 1A5477, 1A6487, 132B2372, 94330EM-L/94333EML/94335EML, 84330EM-L/84333EML/84335EML, 8747EML	PRASTEL	MTE, MPSTLE, MPSTP2E, TCE, BFOR, TRQ-P
CLEMSA	MUTANCODE 1-433/2-433/T81/T82/T84, E-CODE N, MASTERCODE MV	PUJOL	TWIN, VARIO, VARIO MARS, VARIO OCEAN, NEO, MERCURIO, WHITE, BLACK, ROJO MARTE
DASPI	ZERO RC	RIB	LITHIO, SUN
DEA SYSTEM	PUNTO 278, GOLDR, GENIE R 273, GENIE R-GT2(4N), MIO TR	SEA	HEAD 433/868, SMART DUAL ROLL 868, 868-SMART-3, COCCINELLA ROLL
DITEC	BIXLP, GOL4, BIXLG	SEAV	BE HAPPY RS, BE GOOD, BE SMART
DOORHAN	TRANSMITTER 2/4, RSC, RSE, RSZ	SILVELOX	Mhz 2007, Mhz 07 RC, QUARZ SAW
ERREKA	IRIS, ROLLER 2, ROLLER 2 868, ROLLER 4 868, SOL433, SOL868, SOL2R, VEGA 433, VEGA 868	SIMINOR	CVXNL, MITTO, SIM433, S433-4T, 433-NLT42, 433-NLT4
FAAC	TML433SLH, DL868SLH, XT868SLH, XT433SLH, T868SLH, XT433RC, TE433HG, T433SLH	SOMFY	K-EASY, K-EASY NEW, K-EASY OLD, MITTO, KEY GO RTS, TELIS RTS, KEYTIS RTS, KEYTIS RTS NS, ALARMA
FADINI	JUBI-SMALL, JUBI 433, GITR-3, GIT, GICT390, GIFT390-1, G3T-BX, G1T-BX, GM3T, GICTD, GIFTD	SOMMER	4010, 4020, 4026, 4025 433, 4025 868, 4046(8)V000
GENIUS	AMIGOLD, AMIGO, KILO, BRAVO, ECHO	STAGNOLI	KALLISTO AK441, VENUS AV223
GIBIDI	AU1600, AU1600 WOOD, AU1680, AU1680 WOOD, DOMINO	TAU	250K-SLIMRP, 250K-SLIMR, 250T-4RP
JCM	GO, GO PORTIS, GO NORTON, NEO, TWIN	TELCOMA	FM400E, FM400
KEY	900TXB-42R, TXB 44R, SUB 44R	TORREC	433M, 315M
KING GATES	CLIPPER, STYLO	V2	TSC, TXC, TRC, HANDY, PHOENIX 433/868, PHOX 433/868
		VDS	ECO-R, TRQ P



ATTENTION PROCEDURE FOR STORAGE OF AN HCS for FAAC/GENIUS transmitters

Once that the LED of the relay of the receiver remains steady on:

- release the button of the transmitter
- enter the programming mode and press button 1 and 2 (the blue LED of the transmitter will start flashing)
- now, press and hold down the button you want to store

DECLARATION OF EU CONFORMITY

Product: COPY-ONE
 Manufacturer: AB TECNO S.r.L. - Via Cicogna, 95 - 40068 San Lazzaro di Savena (BO)
 The Manufacturer declares under its own responsibility that the product covered by the declaration meets all the provisions applicable in the following Directives:
2014/35/EU - on the harmonization of the laws of the Member States relating to the making available on the market of electrical equipment intended for use within certain voltage limits.
2014/30/EU - for the harmonization of the laws of the Member States relating to electromagnetic compatibility and complies with the relevant harmonization legislation of the Union: **CEI EN 60947-1: 2008/A1: 2012/A2: 2015, CEI EN 60947-5-1: 2005/A1: 2010**
 Bologna, li 01/02/2018



AB TECNO's CEO
 Ulisse Pagani

Ulisse Pagani

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