
EZPull CVR Target Sensor

EZPull TargetManager is a clay targets counter and control system. Using EZPull CVR Target Sensor (model CTMG), TargetManager can be added to trap fields equipped with Canterbury Voice Release (CVR) to convert the traditional voice release system into a “Pay and Play” target counting system.

The CVR Target Sensor is patched between the Canterbury control box and the relay box in the trap house. When the CTMG senses that a target is to be released, it sends a wireless target request to the EZPull TargetManager. TargetManager checks for available targets in the “bank”. If targets are available, TargetManager sends a “throw target” command to the wireless receiver connected to the Trap Machine in the Trap bunker.

Connecting the CVR Target Sensor:

1. Disconnect the cable from the power supply/relay unit in the trap house and the Canterbury control box and connect it to the female receptacle on CTMG.
Note: for a wireless Canterbury voice release, ask for extra long cable or an extension cable.
2. Connect the male plug from the CTMG to the socket on the Canterbury control box.
3. Disconnect the power supply/relay unit in the trap bunker from the Trap machine.
4. Mount the TargetManager RFID card counter behind the 27 yard line so it is accessible to shooters to log in their targets on the way to the Trap field. Load targets in the TargetManager.
5. Mount the EZPull SRX-01/SK in the trap bunker and connect to the Trap machine. Pair the TargetManager with the SRX-01/SK (see document *EZP_SRX01SK_Setup.pdf* for details). Once the receiver is in pairing mode, press the [1] key on the TargetManager to pair.
6. Press the puller’s button on the Canterbury and observe the CVR Target Sensor:
 - 6.1. A Blue light indicates “OK” - the CTMG is communicating with the TargetManager.
 - 6.2. A Red light indicates failure to communicate with the TargetManager. TargetManager may be in sleep mode or the CTMG is not paired with the TargetManager. See address setup below.



Puller’s Delay: The entire transaction between the sensor and TargetManager adds less than 60mS (thousands of a second) delay. If shooters feel this delay is too long, set the Canterbury control box to instant release. For more information, please contact the Canterbury vendor at 1-828-693-3833.

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Setting the Wireless Address on the CVR Target Sensor:

The Remote Addresses on the CVR Target Sensor must match the address on the TargetManager:

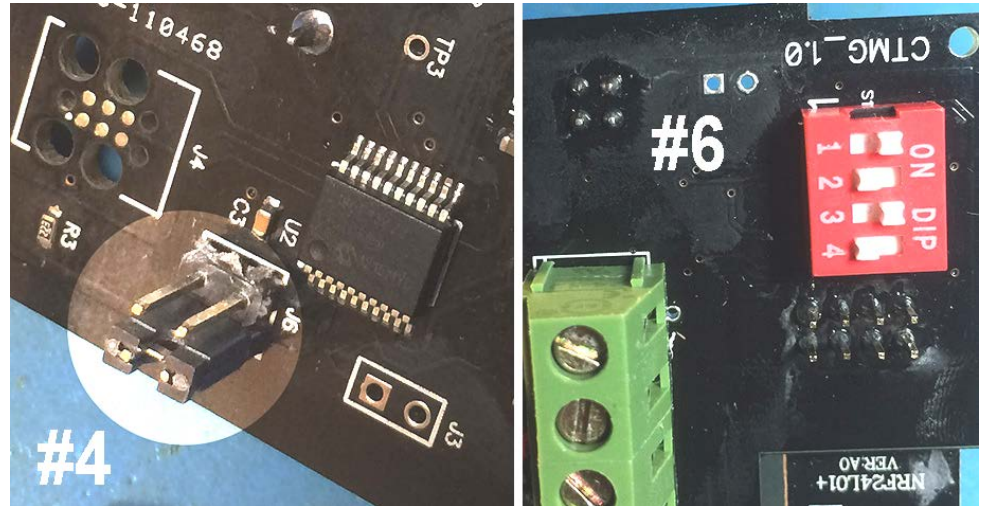
1. Remote Address (RCAD): This is the unique address of the EZPull wireless remote. It must match the address on the TargetManager. Four different RCAD value can be set on the CTMG using two jumper headers (marked J6 on the board):

J6-1 (right side) near board edge	J6-2 (left side)	RCAD
-	-	3
X	-	4
-	X	5
X	X	6

2. Remote Channel (RCCH): This is also part of the address for the EZPull wireless remote. It must match the address on the TargetManager. The CTMG can be set to RCCH value 01-16 using a DIP switch (marked S1 on the board):

ADDRESS SETTINGS				● = ON					
ADD	1	2	3	4	ADD	1	2	3	4
01	○	○	○	○	09	○	○	○	●
02	●	○	○	○	10	●	○	○	●
03	○	●	○	○	11	○	●	○	●
04	●	●	○	○	12	●	●	○	●
05	○	○	●	○	13	○	○	●	●
06	●	○	●	○	14	●	○	○	●
07	○	●	●	○	15	○	●	●	●
08	●	●	●	○	16	●	●	●	●

3. For address changes to take place, the Target Sensor must be reset. Disconnect the CVR Target Sensor only from the Canterbury power supply (relay box) and keep it connected to the Canterbury control box. Wait 10 seconds and connect again to power supply.



The picture shows a CVR Target Sensor set for Address 04-06.