



# SECURE-TECH

DETENTION ELECTRONIC SYSTEMS  
 ETECH CONTROLS CORPORATION - MANUFACTURER  
 4051 ALVIS COURT #3, ROCKLIN, CALIFORNIA, USA 95677  
 TEL (916) 630-1300 • FAX (916) 630-1100 • FREE (800) 800-2523

**MODEL-  
 #PAT-D22A-C**

## CDCR PAS DURESS TRANSMITTER REPLACEMENTS - 303.875MHz

### Personal Alarm Transmitter #PAT-D22A-C

Crystal Locked Frequency  
 for Extended Range\*.  
 NEW! Now with ChargeGuard  
 Battery Level Supervision LED!



**GOOD**

**FAIR**

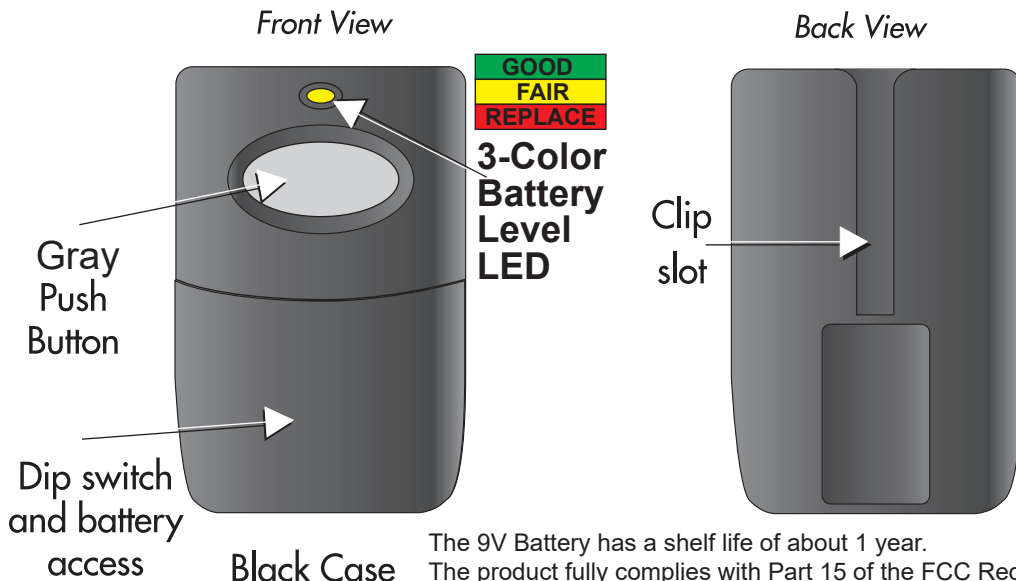
**REPLACE**

#### BATTERY STATUS LED

LED Color	Battery Level	TX Status
☀️ LED Green	Normal Level	~6000 pulses [*]-Normal Range
☀️ LED Yellow	Attention Level	Max 300 pulses [*]-Low Range
☀️ LED Red	Low Level	Replace Battery - No Range

### DESCRIPTION

The Secure-Tech.com #PAT-D22A-C is a crystal-locked frequency transmitter control designed for use with CDCR, 303.875MHz Personal Alarm Duress Systems. All PAT and PAR products (on the same frequency) can be mixed and matched to suit your individual needs. The #PAT radio format provides 256 different digital codes. The codes are set using the 8-position coding switches in the units. ⚠️ Caution: All transmitters and receivers should be recoded and tested prior to operation.



The 9V Battery has a shelf life of about 1 year.  
 The product fully complies with Part 15 of the FCC Regulations.

**Secure-Tech.com Detention Technology Products for over 30 years!**

*The Sign of Excellence*



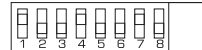
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**MODEL-**  
**#PAT-D22A-C**

**CDCR PAS DURESS TRANSMITTER REPLACEMENTS - 303.875MHz**

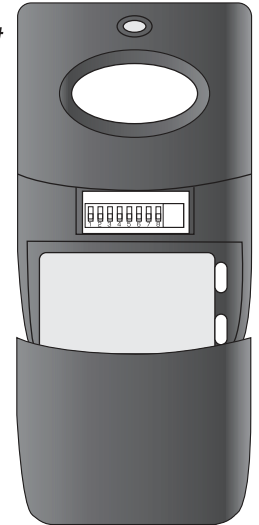
**CODING**

Set the eight-digit toggle code switch to match the code set from another functioning transmitter. Access to the PAT's toggle code switch is achieved by opening the bottom front cover. Move switches using a small pointed object, such as a paperclip, gently switching the small switches to either the ON or OFF position. (in Detail below, switches 1, 4 and 7 are in the ON position.) When complete, reinstall battery (if necessary) and snap front cover back into it's original position.



*Detail of Switches*

*Front*



**OPERATION**

Once the codes are set to match the transmitter codes, you may test the system. Ensure the gate or door is visible and clear before testing.

**Step 1.** Push the PAT's button from a distance of about ten feet. If the receiver activates, the switches are properly matched.

**Step 2.** Test the transmitter from several locations to discover any "blind spots" caused by interference.

**BATTERY ACCESS**

Open bottom front cover to reach battery compartment. Attend to proper polarity when installing or replacing battery. See "Coding" for proper removal and replacement of cover.

In order to avoid the possibility of duplicating codes in adjacent systems, factory set codes should not be used. In addition, among the valid codes available, four others should not be used. These include: all keys set ON or OFF and keys set alternating ON/OFF.

After completing an installation, operate the PAT transmitter inside and outside the building to verify operation, and to confirm that the coded signal used does not interfere with neighboring building PAS systems. If interference is detected, select another code and check coded signal again. Repeat if necessary.

**IMPORTANT !!!**

#PAT radio controls provide a reliable communications link and fill an important need in portable wireless signaling. However, there are some limitations which must be observed.

- For U.S. installations only: The radios are required to comply with FCC Rules and Regulations as Part 15 devices. As such, they have limited transmitter power and therefore limited range.
- A receiver cannot respond to more than one transmitted signal at a time and may be blocked by radio signals that occur on or near their operating frequencies, regardless of code settings.
- Changes or modifications to the device may void FCC compliance.
- Infrequently used radio links should be tested regularly to protect against undetected interference or fault, and to verify operation.

\*Field Range Testing with the Crystal-Locked Model #PAT-D22-C Transmitters, by Etech Controls Corporation, has consistently shown these units to have 20-50% better transmit range than the original LINEAR #D22A, and with higher RF-Receiver triggering rates at all ranges. Bench testing shows that the transmitted 303.875MHz RF-Signal is tightly on frequency, with a very high gain at 303.875MHz, compared to the original LINEAR model #D22A, and other 303.875MHz transmitters we have tested.

**ETECH CONTROLS CORP. LIMITED WARRANTY**

This product is warranted to the end-user against defects in material and workmanship for two (2) years from the date of purchase. This warranty applies to first retail buyers of new devices. Warrantor will repair, or at its option, replace, any device it finds that requires service under this warranty, and will return the repaired or replaced device to the customer at the warrantor's cost. For warranty service and shipping instructions contact warrantor at the phone number shown below. Devices must be sent to warrantor for service at owner's expense. The remedies provided by this warranty are exclusive. Implied warranties under state law are to the one year period of this written warranty. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

All products returned for warranty service require a Return Material Authorization Number (RMA#). Contact Etech Technical Support at 1-800-800-2523 for an RMA# and other important details.

**TECHNICAL SPECIFICATIONS**

Operating frequency:	303.875 MHZ
Number of buttons:	1
Battery:	1 ea. 9V
Number combinations:	256
Operating temperature:	-20° F - 100° F
Overall dimensions:	2-3/8" x 3 -1/2" x 3/4"
Weight:	3 oz.

**TROUBLESHOOTING**

<b>PROBLEM</b>	<b>SOLUTION</b>
The system does not receive the transmitter signal. The transmitter LED will not light.	<b>Ensure clear plastic battery insulator has been removed; OR Replace the transmitter battery.</b>
The system does not receive the transmitter signal. The transmitter LED is ON.	Check to ensure the transmitter switches are coded to match your system receiver.
The operating range is reduced.	Replace the transmitter batter.