

## DT-55 Quick Start Guide

### Using the CONEX DT-55 Telephone Remote Control with TVMS 4200 In Service Test Processors.

The Conex DT-55 provides a simple and effective way to remotely enable/disable 4200 IF gates from the field. The IF gate for each test channel is individually enabled and disabled by entering commands from a cell phone. This provides in-service CTB tests with no service interruption, no personnel in the headend, and minimal sound buzz.

#### Installing the DT-55

Holes are provided in the DT-55 frame to allow permanent mounting to e.g. blank rack panels or rack frames. Alternatively, hook and loop (“Velcro”) can be used to fasten the DT-55 to a stable structure – be sure to mount it such that the connections are easily accessible.

Connect the DT-55 to the phone line using a standard telephone extension cable. Connect the wall power supply (provided) to the 8-20VDC input on the DT-55. The red LED should light.

#### Test the DT-55 phone connection

Call the DT-55. It should answer on the first ring, the LINE, then ACCESS LEDs should light and it should send a confirmation sound. Hang up the phone and ensure that the LINE and ACCESS LEDs extinguish. Its unlikely but, if the LEDs do not extinguish, you may be on an internal phone system (PBX) that doesn't recognize the disconnect. In that case, you must force the DT-55 to disconnect by pressing \* # \* before hanging up the phone.

#### Connecting the DT-55 to TVMS 4200s.

The DT-55 has ten relays that can be used to control individual 4200's. Connect a pair of wires from the DT-55's common and normally open relay terminals to the REMOTE connector on the back of the 4200. Use the 3 pin plugs that came with your 4200's, connections are made to the left-most (GND) and center (GATE) pins.



If you are testing more than 10 channels, you can parallel connections to 4200's so that one DT-55 relay will simultaneously enable the IF gate on more than one channel. A common situation is when testing 11 channels. In that case, connect nine 4200's to relays in the DT-55 and connect both of the last two 4200's to the remaining relay in the DT-55.

## **DT-55 Optional settings**

There are three options available when setting up the DT-55:

- Access code
- Start up condition after temporary power loss
- Interlock mode (only one relay enabled at a time)

Removing the DT-55's cover and setting the internal DIP switches as described in the Operating Manual can change these options.

*If the DT-55 was purchased from TVMS, it has been set as follows:*

- Answer on the first ring – this is set by the manufacturer and is not adjustable
- No access code required. This can be changed – refer to the DT-55 Operating Manual
- If power is lost, all DT-55 relays will come up in the OFF position when power is restored. This can be changed – refer to the DT-55 Operating Manual
- Only one relay may be ON at a time. When a relay is turned ON by using the touch tones from the caller, all other relays will be turned OFF. This can be changed – refer to the DT-55 Operating Manual.

## **A typical test sequence**

Set up the spectrum analyzer to perform the desired test.

Call the DT-55. The Yellow RING LED will light when the ring signal is detected.

The DT-55 should answer on the first ring. The LINE LED will light and the caller will hear a confirmation sound.

At the appropriate time, press the phone key that corresponds to the channel you are testing. The IF Gate for that channel will be enabled.

When finished testing a channel, press # # # to disable the IF gate.

Repeat for all test channels. *Make certain to press # # # after testing the last channel! If you don't, the IF gate for that channel will remain on when you hang up.*

When finished enter \* # \* to hang up the DT-55.