

# Technical Specifications

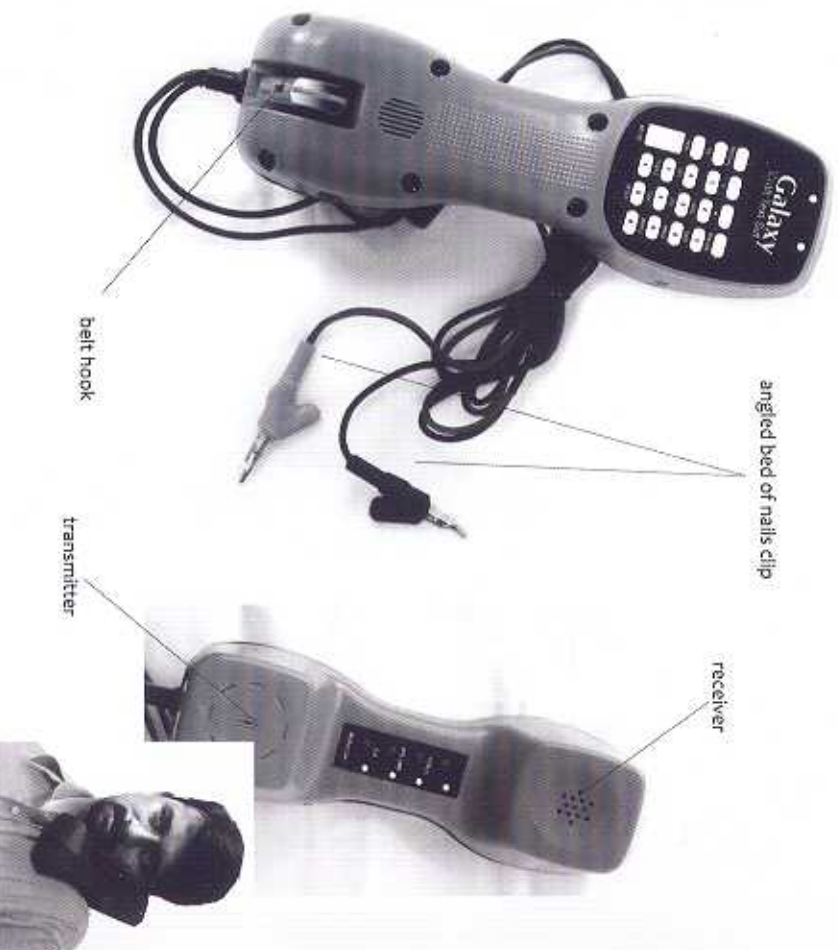
Description	Parameters
<b>Electrical</b>	
Current	< 90mA
Off-hook DC resistance	150 Ω
Off-hook AC impedance	600 Ω
<b>Dialing</b>	
Pulse rate	10PPS + 1 PPS
Break/Make ratio	60 / 40
Inter digit pause	720-880 ms
Resistance during break	>100K Ω
DTMF output	
Tone frequency error	+ 1.5 % max
High level	-8 ± 2 dB
Low level	-6 ± 2 dB
Twist	2 ± 1 dB
<b>Memory dialing</b>	
Memory capacity	10 speed dial memories plus one turret memory
Digit capacity	Each memory 23 digits max
Pause duration	3-6 Sec
Ring distance	≤ 2Km
Monitoring resolution (MΩ)	≥ 1
<b>Physical</b>	
Dimension	232 x 73 x 95 (mm) ; 9.1 x 2.9 x 3.7 (in)
Weight	0.5 Kg ; 1.1 lbs
Water proof	Meets IP 41
<b>Operation environment</b>	
Environment temperature	10°C ~ 55°C
Relative humidity	10% ~ 95%
Environment noise	≤ 60dB
Atmospheric pressure	86 ~ 106Kpa



# Galaxy

## Craft Test Set

## Galaxy Craft Test Set



### Physical Characteristics

Galaxy is made of industrial grade plastic. It is designed for rugged use and can withstand rough handling and shocks in field use. The dumbbell shape is slung on the shoulder to keep the hands free. It has an extra large belt hook equipped with a spring-loaded clip for secure holding to belt loops. The line cord is braided in superior yarn with angled bed of nails and piercing pin.



## Keypad Controls and Indicators

**Monitor**  
Press this key to switch to monitor mode. The glowing LED indicates the test set is in monitor mode.

**Hook**  
Press the button to go off-hook. The LED indicates the test set is off-hook. To end the call, press the hook key again.

**Volume**  
Press the key to increase the receive volume and the LED indicates that the receive volume is increased. Press again to bring back the receive level to normal.

**T/P (Tone / Pulse)**  
The T/P key is used to switch between tone and pulse dialing. The tone / pulse key is only active when the test set is off-hook. Any time the test set goes off-hook, it resets to tone dialing.

Press T/P key to change the dialing mode to pulse dialing and glowing LED indicates that the test set is in pulse mode. Press the key again to switch back to tone dialing.

**Ringler**  
The ringler is enabled while the test set is on-hook.

Remember to switch off Volume, T/P and Monitor functions after use, to maximize battery life.

**Redial**

The Redial key is used to dial the last dialed number again. The number capacity is 32 digits.

**Pause**

The PAUSE key is used to insert a timed pause into a stream of dialed digits. The PAUSE key is most commonly used in combination with speed dial numbers that will be dialed out through a PBX. The duration of the pause is 3-6 sec.

**S (store)**

This is used to store the number in the memory. (Refer Memory Operations)

**A (Access)**

This is used to dial out any number stored in memory location (0-9).(Refer Memory Operations)

**Keypad Number and Functions**

The keys are used to dial telephone numbers and make function selections. The numeric keypad includes 12 standards dialing keys including the asterisk (\*) and the pound (#) keys the seven special purpose keys are labeled.

**Mute**

This is useful when using the test set in noisy environments to hear the person at the other end of the line clearly. The mute key is functional only when the test set is off-hook. In off-hook, pressing the mute key will shut off the handset's microphone. Press Mute again to unmute the microphone.

**Polarity**

The Galaxy will function in either polarity. Press the "pol" key to check the polarity of the line. The green POL LED will glow if the red test lead is connected to the ring (negative) side of the line and the black test lead is connected to the Tip (positive) side of the line. The red POL LED will glow if the test leads are reversed; that is with the red test lead connected to the tip (positive) side and with the black test lead connected to the Ring (negative) side.

**TS (Turret Store)**

Turret Store is used to store a memory while on a call. When off hook, key in the number and press TS. After hanging up, press TS again to dial out the number.

## Operations

The test set has two basic modes of operation: Talk mode and Monitor Mode.

Talk mode is used for off-hook operation and the monitor mode is for audio monitoring of the Tip and Ring pair while on-hook. In Monitor mode, the test set has high input impedance, which allows monitoring of the line without disrupting conversations or data signaling if present.

**Talk/ Monitor Switch**

The talk/monitor switch is located on the bottom side of the test set. Pressing hook switch puts the test set in to talk mode. Pressing the monitor switch puts the test set in to monitor mode.

**Operating the Test Set in Monitor Mode**

While in monitor mode, the test set is always on-hook. The test set draws no direct current from the line and it transmits no signals to the line. In this mode, the test set has high AC input impedance, which allows listening for audio signals without disrupting conversations or data signaling that might exist on the line. In the monitor mode, test set is typically used to perform one or more of the following procedures

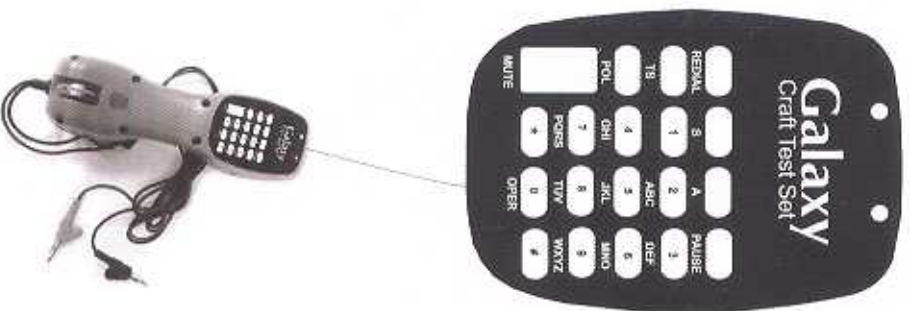
1. Verification that a line is idle when looking for a line to borrow.
2. Listening for noise on the line.
3. Hunting for tracer tones.
4. Performing a test for the presence of high frequency data.

**Operating the test set in talk mode**

Press the hook switch. The LED lights up. In off-hook the test set operates like a standard telephone; it is typically used to verify the proper operation of a voice telephone line or to establish temporary communication on a "borrowed pair"

**Receive volume control**

The receive volume can be adjusted in monitor mode as well as during the conversation. When you are on monitor mode or conversation press the volume key to increase the receive volume.



# Operations

## Originating a call

1. Press the monitor switch to put the test set to monitor mode.
2. Clip the test set to Tip and Ring off a subscriber loop.
3. Monitor (listen to the line to verify it is idle).
4. If not idle, disconnect the test set from the line.
5. If the line is idle, release the monitor switch and press the hook switch.
6. The IN USE LED will light up stating that the test set is off-hook.
7. Dial the desired number.

## Disconnecting a Call

To disconnect a call, press the hook button again

## Incoming call

To detect an incoming ring signal, the test set must be in on-hook. When there is a ring signal is received, the test set will sound its ringing tone.

## Last number redial

The last dialed number can be redialled by pressing the "Redial" key after going on-hook and then back off-hook. If, after going off-hook, any dialing key is pressed, the redial will be cleared and the value of the pressed key will be the first number stored in the cleared memory.

To operate the redial

1. Press the hook switch, go off-hook
2. Dial the number
3. Press the hook switch, go on-hook
4. Press redial

## Pause

This feature is required only when testing the test set behind the PBX. The pause time is 3.6 sec. For example, to dial out 2496 3200 with a pause, follow the procedure.

To operate the pause function

1. Press the hook switch, go to off-hook
2. Dial 9, Pause 2496 3200.
3. Press the hook switch, go to on-hook, Press redial. During redial, there will be delay and the numbers will be dialed out.

# Memory Operations

## Storing a number in Turret memory

You can store the dialed number in turret memory while in off-hook and the same can be dialed out. The memory capacity is only 23 digits.

To store the number in a turret memory,

1. Press the hook switch, go off-hook
2. Dial the number
3. Press "S" key twice.
4. Press "TS" key to store the number

To store the number during conversation

1. Enter the number
2. Press "S" key twice.
3. Press "TS" key to store the number

To dial out the stored number from the turret number

1. Press the hook switch, go off-hook
2. Press "TS" key.
3. The stored number will be dialed out.

Store a number memory (0-9) locations

The test set allows storage of numbers for speed dialing in ten memory locations (0-9). Numbers can be stored only in off-hook. Each location will store up to 23 digits.

To store the number in a memory location (0-9)

1. Press the hook switch, go off-hook
2. Press "S (store)" key.
3. Enter the number
4. Press "S" key again.
5. Press the location (0-9) to store the number.

To dial out the stored number from the number

1. Press the hook switch, go off-hook
2. Press "A (Access)" key.
3. Press the number key (0-9) for the memory location.

For example, to dial a number stored in location 3, press A then press 3. The number will be automatically dialed.

The Memory feature will not function if the battery is low.