

## PRODUCT DESCRIPTION

The DSTS 2 first introduced in 1988 has remained a favourite with many telephone administrations around the world because of its reliability and ease of use. Since its introduction, the design has evolved in line with changes in the technology and services deployed in the telephone network to its present form incorporating DSP technology.

Digital Services Protection (DSP) Test Telephones are designed to operate safely in situations where telephone wiring may be carrying Digital traffic, Voltage feed to remote electronics or Hazardous voltages that result from fault conditions or misuse of the cable.



## FEATURES

- Digital circuit safety
- Excessive voltage alarm
- Automatic lock-out
- No Battery Required
- Tone/ pulse
- Last Number Redial
- High Impedance Monitor at normal listening levels
- High monitor level
- High impact resistance
- High chemical resistance
- Easy non slip shoulder placement
- Tone/Pulse operation
- Redial in Tone and Pulse
- Timed Break Recall (Flash)
- Polarity Check
- Ground Start/ Earth Calling
- Full operation at 10mA
- Protection against direct battery connection
- Belt clip/hanging loop

### Digital Services Protection (DSP)

In the "on hook" mode, on connection to a circuit, the Test Telephone sounds an alarm to alert the user to the presence of voltages above 75V DC (nominal). These voltages are normally present on circuits carrying digital services. If the circuit is active, the user can select MONITOR mode and listen to the sound to determine if the circuit is carrying digital services without disrupting the traffic.

Selecting "off hook" mode will stop the alarm signal and loop the line without damage to the test set. If the alarm signal persists, it indicates that the voltage on the line is above 120V (nominal). In this case the line is not looped avoiding damage to the test set as well as alerting the user to the presence of hazardous voltages.

# DSTS 2 Test Telephone with DSP

## SPECIFICATIONS

### Electrical:

Loop Limit:	4k $\Omega$
Minimum Loop Current:	10mA
Off-hook DC Resistance:	300 $\Omega$
Min. DC Resistance in: Idle	1M $\Omega$
Min. AC Impedance in Monitor:	10k $\Omega$
Voltage Lockout Range:	>120V DC

### Pulse (Rotary) DIAL:

Pulse Rate:	10pps
Break/Make:	66%
Interdigit Interval:	800mS

### DTMF Output:

Tone Level:	-8 to -11dBm
Tone Frequency Error:	$\pm 1\%$
Tone Twist:	2dB $\pm$ 2dB
Flash Duration:	100mS

### Memory Dialling:

Stored Number Capacity:	1
Stored Number Length:	21 digit
PBX Pause:	N/A

### Environment:

Operating Temperature:	-40°C to +50°C
Storage Temperature:	-40°C to +70°C
Environmental Resistance:	IP30
Physical Shock:	Survives 9x3m drop onto concrete

### Physical:

Length:	235mm
Width:	60mm
Depth:	83mm
Weight:	0.35kg

### Warranty:

One Year

## RELATED PRODUCTS

Tempo supply Test Telephones to meet the diverse needs of Network Operators around the world.

The designs vary in price, form, electronic and mechanical specification and include the following range of measures to protect the Test Set, the User and the Network.



Protective Measure	Data Safe	DSP™	DigAlert™	ADSL Compatible
Input circuitry protected against accidental connection to high voltages		✓	✓	✓
Test telephone is prevented from going off-hook (locked out) in the presence of high voltages		✓	✓	✓
Digital traffic is protected when the Test Telephone is on-hook	✓	✓	✓	✓
Test telephone is prevented from going off-hook (locked out) in the presence of data			✓	✓
POTS can be tested on a live ADSL line without disrupting the ADSL service				✓