

# DSP **Compact**

Digital Services Protection



CHESILVALE



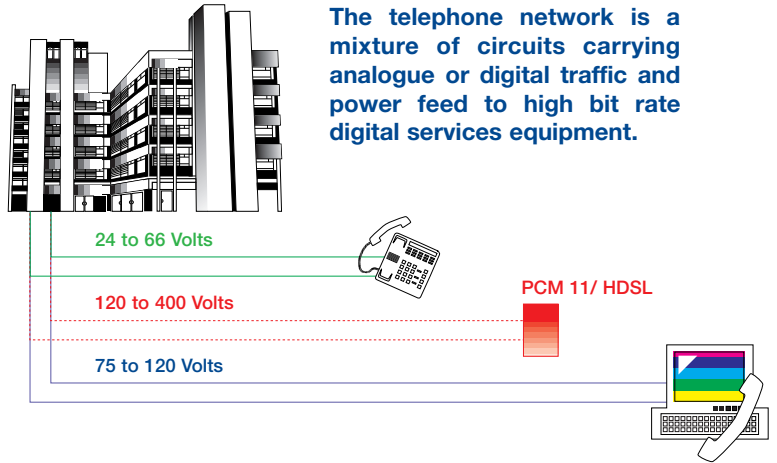
- Safe with Data Lines
- Rugged Drop Proof Design
- Protected against 230 VAC
- Flat Battery - always ready feature
- Over Current Protection
- Battery Saving Auto Power-off
- Lightning Surge Protection
- Three Position Volume Boost
- Finger Tip Microphone Mute
- Headset Socket for Hands Free
- 32 Digit Last Number Redial
- Acoustic Shock Protection

## DSP- Digital Services Protection

The Compact DSP Test Set is designed to operate safely in situations where telephone wiring may be carrying digital traffic, voltage feed to remote electronics or the hazardous voltages that result from fault conditions or misuse of the cable.

When set to OFF mode, on connection to a circuit, the test set 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 TALK 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.



The telephone network is a mixture of circuits carrying analogue or digital traffic and power feed to high bit rate digital services equipment.

All DSP features work even if the battery is flat or not fitted.

## Accessories

Connection of a headset provides hands free communication.



A variety of test leads can easily be connected via a standard RJ11 connector.

## Specifications

### • Long Line Operation

With a 48V feed > 5kΩ loop, minimum current < 10mA

### • DC Resistance

Off-hook: TALK modes (Handset & Headset): < 300Ω

On-hook: Idle: > 5MΩ (10uA @ 48V DC)

Monitor: > 5MΩ (20uA @ 100V DC)

### • Monitor Impedance

>100kΩ @ 1kHz

### • Dialling

Pulse Dial: 10pps, break 60%

DTMF/Tone dial level: - 3dBm typical

Flash/Timed Break Recall: 100mS

(switchable 600mS, 300mS)

### • Memory Dialling

32 digit Last Number Redial

### • PBX Pause

2 seconds (can be chained and stored in memory)

### • Alkaline Battery Life

1 year normal use or 5 days continuous monitor of very loud signal

### • Low Battery LED

Red LED indicates 2 hours of continuous monitor remaining

### • Automatic Power Shut off

5 minutes after disconnection

### • Environmental

Operating temp: -5°C to +40°C Storage: -20°C to +70°C

High resistance to impact, Weatherproof: IP30

## Ordering Information

	Part Number		Part Number
Compact DSP including battery & M0459-00 line cord	M0452-00	Headset	M0459-20
<b>Line Cord Options:</b>			
Crocodile clips	M0459-00	Crocodile clips & ground start	M0459-03
BT Plug	M0459-01	Alligator clips	M0459-10
RJ11 Plug	M0459-02	Alligator clips & ground start	M0459-11