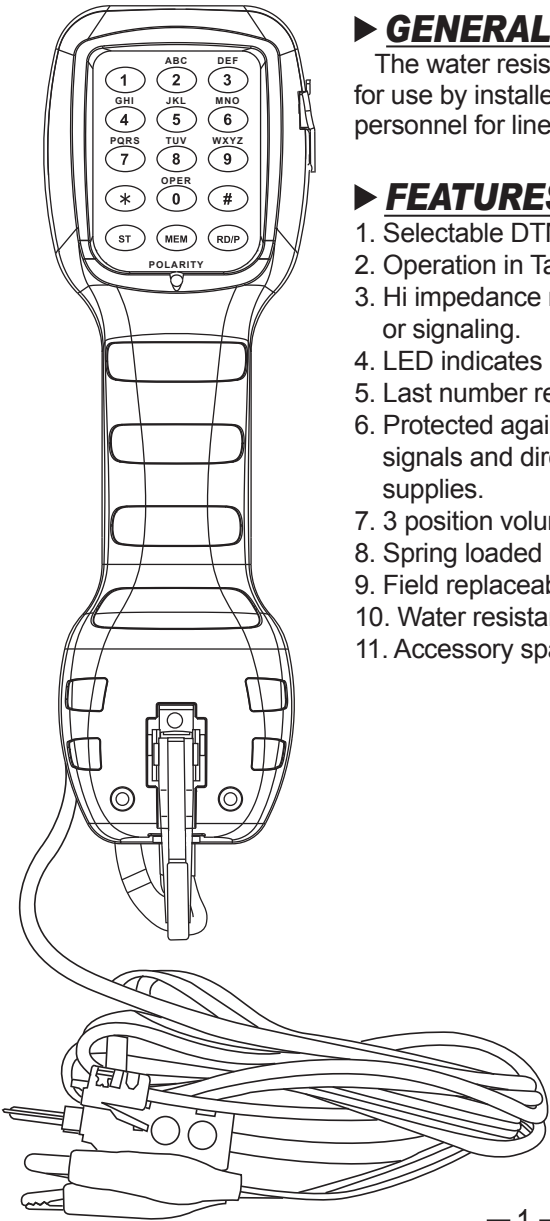


TEST TELEPHONE

Water Resistant User's Guide



— 1 —

► **GENERAL:**

The water resistant CZ20018 Test Telephone is designed for use by installers, repair technicians and other authorised personnel for line testing and temporary communications.

► **FEATURES:**

1. Selectable DTMF (Touch Tone) and pulse dial.
2. Operation in Talk / Ring and Monitor modes.
3. Hi impedance monitor will not disturb data, conversation or signaling.
4. LED indicates reversed polarity.
5. Last number redial (31 digit maximum).
6. Protected against excessive voltage, transient ringer signals and direct connection to most batteries and power supplies.
7. 3 position volume control.
8. Spring loaded belt clip.
9. Field replaceable Multi-Way Lead Set
10. Water resistant.
11. Accessory spade connector cord included.

► **OPERATION:**

• **Connection:**

The CZ20018 Test Telephone is fitted with a RJ-11 modular jack Field replaceable Multi-Way Lead Set cord is connected to the Test Telephone at its base near the belt clip. (Figure 1)

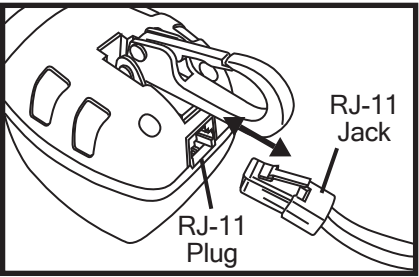


Figure 1

• **Keypad:**

Dependant upon the TONE/PULSE switch setting, the 15 standard keys will send either DTMF tones or dial pulses. Additional to the standard 0-9 * and # keys are 3 function keys: ST (Store), MEM (Memory) and RD/P (Redial/Pause). (Figure 2)

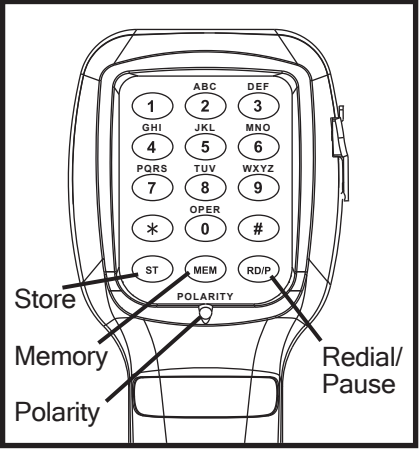


Figure 2

• **Monitor/Ring/Talk Switch:**

Located on the inside of the handgrip this 3 position switch has the following modes:

1. Monitor Mode:

In Monitor mode, the CZ20018 is on-hook with a high impedance coupling to the line being tested. This allows for line monitoring without disrupting conversations, data or signaling. (Figure 3)
2. Ring Mode:

In Ring mode, the CZ20018 is on-hook with an electronic ringer connected to the line. This connection is low impedance for monitoring of line identification tones. (Figure 3)
3. Talk Mode:

Talk mode is used to answer a call, seize the line or initiate signaling. If dialing, select the pulse or tone as appropriate. To terminate a call, release the line by switching to Ring or Monitor Mode. (Figure 3)

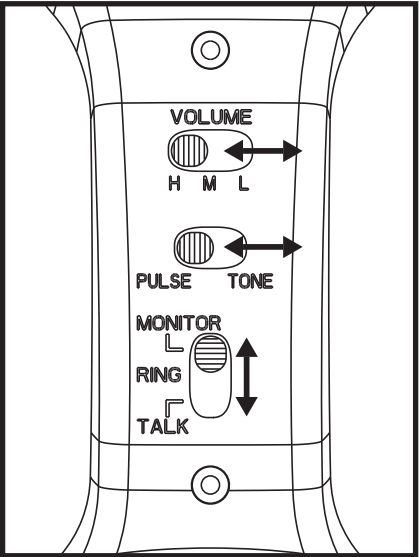


Figure 3

• **Function Select:**

1. Volume Switch(H/M/L):

This 3 position slide switch is located on the inside of the handgrip. Volume can be set to low, medium or high. (Figure 3)
2. Tone/Pulse Switch(TONE/PULSE):

Located on the inside of the handgrip this 2 position switch selects the signaling output. Select TONE for DTMF or PULSE for dial pulse. (Figure 3)

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• **Polarity LED:**

Polarity is automatically indicated when in Talk mode. The polarity indicating LED will light if polarity is reversed. Correct polarity connection is achieved when the red lead is connected b-leg (-), and the black lead is connected to the a-leg (+). A modular telephone line cord may be directly connected to the Test Telephone to check polarity.

• **Last Number Redial:**

The last number dialed (up to 31 digits) in Talk mode is automatically stored. To redial, press the redial button on the keypad. The number may be redialed in either PULSE or TONE mode.

• **Storing Numbers to Memory:**

The CZ20018 Test Telephone is equipped with a 3V Lithium battery and can store up to 10 frequently dialed numbers.

To store numbers to memory:

1. Select Talk mode.
2. Press ST (Store).
3. Enter number to be stored (15 digits max.) .
4. Press ST (Store).
5. Press the number key for the chosen memory location.

• **Placing a Pause in a Stored Number:**

When testing in certain applications it may be necessary to program a pause into the dialing sequence. Programming a pause into the memory will cause the Test Telephone to wait 3 seconds before dialing any more numbers.

To insert a Pause in a call number you should press the RD/P button at the point in the number that the pause is required. For example 0 RD/P 88726666 will place a 3 second pause after the 0.

A longer pause can be inserted by pressing the RD/P button more than once.

• **Dialing a Stored Number:**

After receiving a dial tone, press MEM and the number key for the memory location in which the number is stored. For example, to call the number stored in memory location 1, obtain dial tone, press MEM and then press the number 1. The number will be dialed automatically.

• **Replacing Memory Storage Battery:**

Unit uses a 3V Lithium CR2032 Battery. (Figure 4)

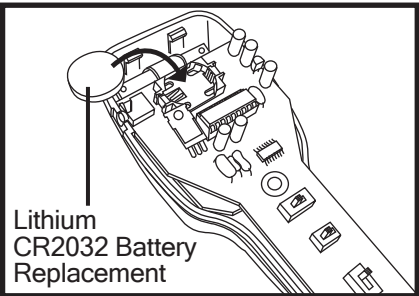


Figure 4

► **SPECIFICATIONS:**

Loop Limit	4K ohms max. at 48VDC nominal 15mA minimum loop current.
DC Resistor	150 ohms Typical at 80mA current.
Monitor Impedence	Low impedance - 600 ohms Typical at 1KHz. (Ring Position) Hi impedance - 100K ohms Typical at 1KHz. (Monitor Position)
Rotary Dial Output Pulsing Rate Percent Break Interdigital Pause Leakage During Break	10 +/- 0.5 pulses/sec 60% +/- 2% 8.5ms Typical > 50K ohms
DTMF Output Tone Frequency Error Level of Tone Pair Low v.s High Tone Difference	+/- 1.5% + 2 dBm max. , -8 dBm min. -4 dBm max.
Physical Length Width Height Weight	22.4 cm (8 4/5 inches) 7.12 cm (2 4/5 inches) 7.0 cm (2 3/4 inches) 380 g (13.4 ounces) max.

(*Specification subject to change without notice.)