

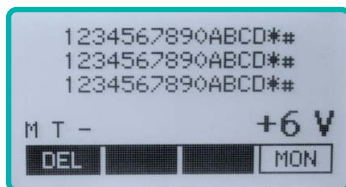
# Rugged analog Testphone with enhanced features like MWI / CID / DTMF-decoding with Data Protection



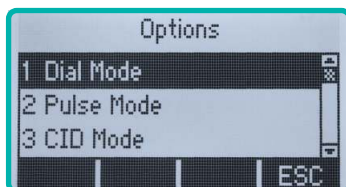
## TP09D



### Voltage detection



### DTMF decoding



### Menu

### At a glance

- Big high resolution graphic display with backlight
- Drop proof 20 feet on concrete
- Waterproof
- Caller ID (CLIP) with name, date and other information
- Message waiting information, MWI
- DTMF-decoding 48 digits (digit grabbing)
- Direct access function button for Flash
- Pulse- and tone-dialing
- Displays up to 48 digits
- 10 memory speed dialing (24 digits each)
- Outgoing and incoming Last Number redial
- High and low voltage detect and lockout
- DSL and data protected with lockout feature
- High impedance Monitor > 500 kOhm/100 kHz



## Light weight, rugged, waterproof analogue Testphone for all today's important test procedures

TP09D comes with a high resolution backlight graphic LCD. This guarantees perfect visibility in any environment. This and features like Caller ID, Message waiting and DSL signal level makes this test set to the EVERY DAY COMPANION of each technician. Plus - TP09D is rugged and waterproof, protected against 20ft drop.

### High Impedance

TP09D has a high impedance in OFF HOOK as well in MONITOR mode for all kind of data signals, including DSL.

### Voltage lockout

The TP09D has a Voltage Lockout feature that protects the unit and data lines.

### Mode - MWI - CID

In Ring Mode the unit is waiting for an incoming call. If a CID message is received, the TP09D decodes single and multi CID messages.

### Monitor Mode - DTMF decoding

Monitor Mode is used to listen into lines without disrupting services. Line Monitor is a high impedance, amplified monitor. In this mode the unit can also receive and display DTMF signals. Any received DTMF sequence will be decoded and shown in the display. There is room for up to 48 digits without scrolling. The impedance is over 100 kOhms up to 100 kHz.

### Talk Mode

Answer incoming calls or place outside calls.

### Adjusting Volume

Press the blue VOL+ and VOL- button on the second keypad

### Direct Dialing or Memory Dialing

There are two ways to dial a number:

1. Use the keypad to directly dial the number.
2. Use memory dialing. There are 10 memory locations, 24 digits each

### Last Number Redial

The last three dialed numbers are stored and selectable

### Caller ID Recall

Caller ID Recall (CID RCL) is the stored incoming Caller ID with number, name and time. The last three numbers are stored and selectable.

### FLASH

Is easy accessible by pressing the direct button. The most common FLASH times 100, 270 or 600 ms are preselectable in the menu setup .



## Fast access menu for setup of the unit

All important parameter settings are changeable by menu

Display shows the direct and in memory stored numbers

Indication of 12 or 16 KHz charge pulse  
Menu selectable

Low Battery indication  
Shows LB if 70% left

Auto shut Off after 10 minutes with no line power

DTMF grabbing – decoding of DTMF on the line.

All 16 numbers will be indicated.  
Up to 48 digits shown in display.

High impedance line monitoring  
> 100 Kohm at 100 KHz  
High impedance talk mode for signals > 20 kHz  
No disturbance of any active service

Built in audible ringer  
Real Time ring duration. This helps to indicate faults in the ring Signal Duration.  
Menu selectable repetition rate

Pulse or Tone dialing selectable by menu  
All memories will be dialed in the selected mode

CLIP - Caller ID  
Receiving of Caller ID, Name and Time/Date  
Stores received information under direct access button. Calculates checksum of received information and indicates any error.

MWI - Message waiting indicator  
In Monitor mode the message waiting information including MWI ON and OFF will be received and displayed.

Direct access buttons  
Direct access button for flash, 100, 270 and 600 ms  
3 direct memory locations  
Receiver Volume setting +/- 8 level

Over- and under voltage lockout  
To busy the line is possible between 5 and 70 V. This must be activated by menu.

## General Specifications

**Related documents:**  
TS 103 021-1 V1.2.1, TS 103 021-2 V1.2.1, TS 103 021-3 V1.1.2, ES 201 729 V1.1.1, ES 201 970 V1.1.1, ETSI TR 101 183, TBR 38, I-ETS 300-245-1

**Line impedance**  
Complex or real 600 Ohms (Order Option)

**Over voltage protection**  
Over voltage protected  
**Related documents:**  
ITU. K21, ITU. K44

**Over current protected**  
Max. Line current 120 mA

**Line detect voltage window**  
4 V DC - 75 V DC

**CLIP mode**  
V.23, DT-AS  
**Related specifications:**  
EN 300 778-1, ETS 300 778-1  
Others by request

**Pulse Dialing**  
Rate: 10pps +/-5%  
Ratio: 40/60, 33/66  
Selectable Interdigit Pause 800 ms

**Tone Dialing**  
Freq. Error: <+/- 1%

**Level**  
High group -6 dBm  
low group -8 dBm  
DTMF Tone duration 84 ms  
DTMF Pause 125 ms

**Direct Button Flash Durations**  
100ms, 270ms, 600ms

**Pause Duration**  
2 sec / per key in

**Memory**  
4 direct buttons (2 programmable, 1 LNR, 1 CID RCL) 24 digits each, 10 indirect locations 24 digits each

**Monitor impedance**  
> 500 Kohm at 4 KHz  
> 120 Kohm at 100 KHz

**Power supply**  
9 Volt Alkaline  
Automatic Timeout 10 min / no Line

**Display**  
Graphical reflective LCD

**Display Languages**  
English, German,  
Any other by request

## Additional Features

**Housing**  
Heavy duty water resistant housing made from ABS, Mylar push button switches.

**Test leads**  
60" (150 cm) durable wire leads with solid alligator clips, field replaceable  
Optional 6A clips, others by request  
Strain relief  
Separate battery compartment with captive screw

**Dimensions**  
9.8" x 3.1" x 1.2/2.8"  
(250 x 80 x 30/70 mm)

**Weight**  
15.8 oz wth battery  
(450 g with battery)

**Drop test**  
20 ft (7 m)

## Optional

SMS sending and receiving function test

**tele cron**  
telecroatian network  
www.telecron.hr

Article No.	Type	Description
0.49310	TP09D	Analoge Testphone with Display