

ASIM 10

For testing and demonstrating telephones,
facsimiles, answering machines
and other telecommunication devices

User Manual

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Security Information and Disclaimer

This device operates with high voltage, which could cause damages to your health. This is especially asserting for the power supply voltage, modulated with the calling voltage.

Indoor use only. Avoid extreme conditions!

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Features and specifications are subject to change without notice.

Product Description

ASIM 10 is a compact, microprocessor controlled device with an alphanumeric display.

It is especially suitable for a quick check of analogue wire based telecommunication terminal equipment.

It is also used as a cost free alternative for two public telephone lines at exhibitions, fairs, shows, representation visits or fault diagnosis.

Use ASIM 10 for testing and demonstrating every analogue telecommunication device like telephones, answering machines, facsimiles, pabx, pbx, switches, tax metering counters, emergency or alert systems, MFC transmitters, e.t.c..

Easy use (only two buttons) with user interface and hints at the two line display. Use it without much time expenditure study of the user manual.

Two independent telephone lines which can be programmed as "test", "office" or "pabx" lines.

Every line is equipped with two RJ-45 jacks and in addition two 4 mm jacks for easy measuring.

An internal microphone makes it easy to test and demonstrate MFC transmitters without additional devices.

All important transactions at the two telephone lines (callings, number of calling intervals, off hook, on hook, dialing modes - impulse or tone, dial number, flash) are supervised, simulated and displayed or acoustical dumped.

Mode “CALLING TO 1”

Incoming call to LINE 1.



*Incoming call to line 1
(Display not in use,
Telephone on hook)*

Function of the button:

To next mode

Function of the button:

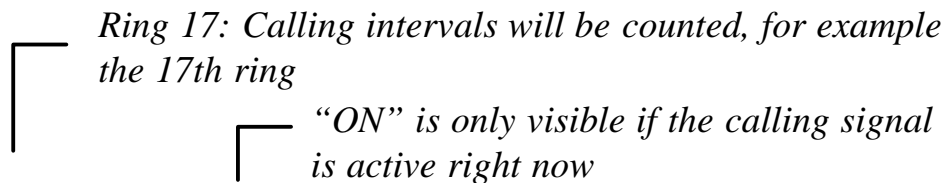
After pushing, the call will be started

LINE 1 is active and in use, LINE 2 is active, but without any function.

Incoming Call

After pushing the button, the calling signal will be transmitted to LINE 1 until the connected device is off hook or until the button will be pushed again to stop the calling procedure. The calling intervals (1s signal, 4s pause) will be counted and displayed. The current calling voltage will be displayed (ON).

If the device is off hook, the calling procedure will be stopped and the number of the off hooked LINE will be displayed. Now you can send 1100 Hz or 1300 Hz CNG signals (for facsimile- or modem switches), a 1 kHz tone (for answering machines) or 16 kHz tax metering impulses (for tax metering counters) by pushing the button.



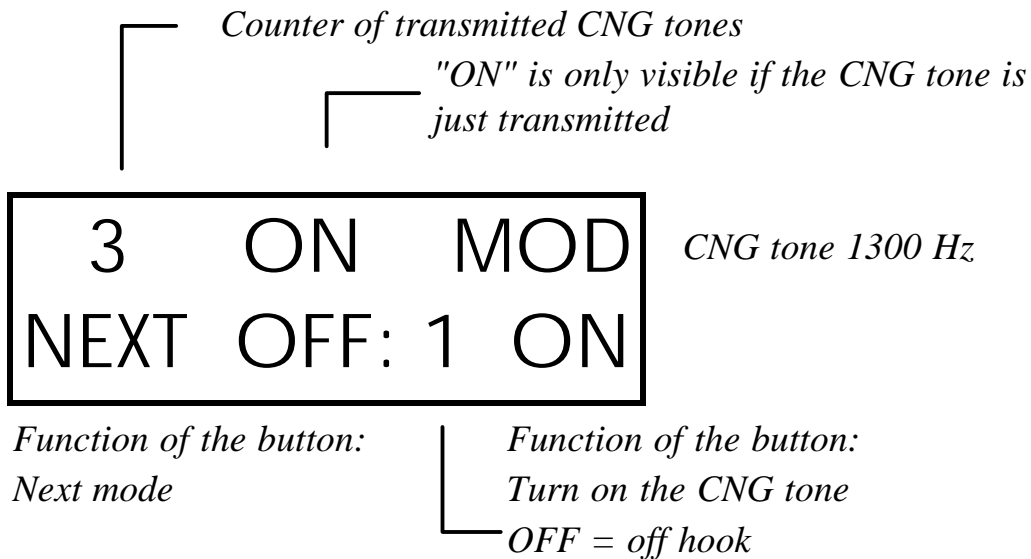
*Calling signal to LINE 1
(Telephone on hook)*

<i>Function of the button:</i> <i>none</i>	<i>Function of the button:</i> <i>Stop the calling interval</i>
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After the device is off hook the following functions are available:

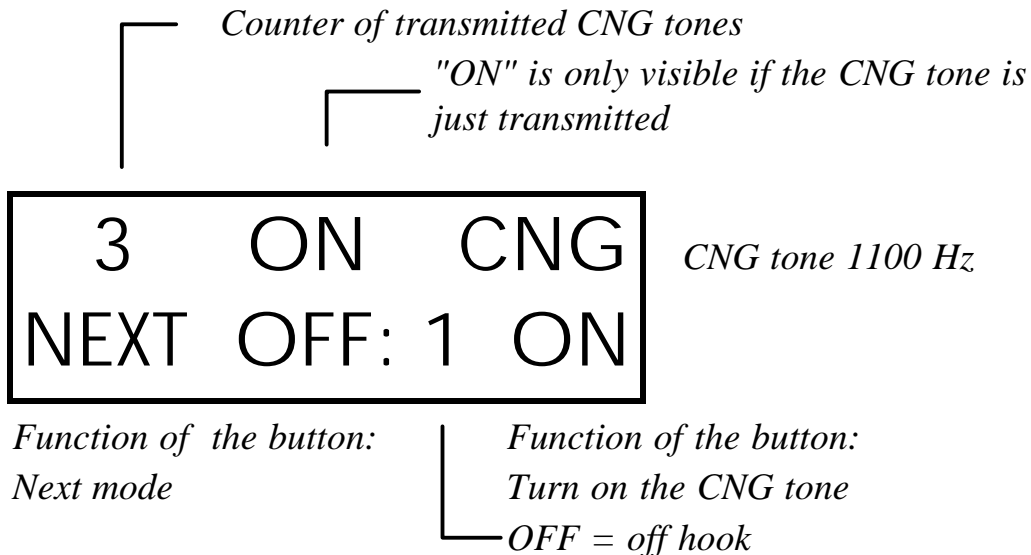
- Transmitting CNG tones for modem switches
- Transmitting CNG tones for facsimile switches
- Transmitting 16kHz tax metering impulses
- Transmitting 1kHz tones

Transmitting CNG Tones for Modem Switches



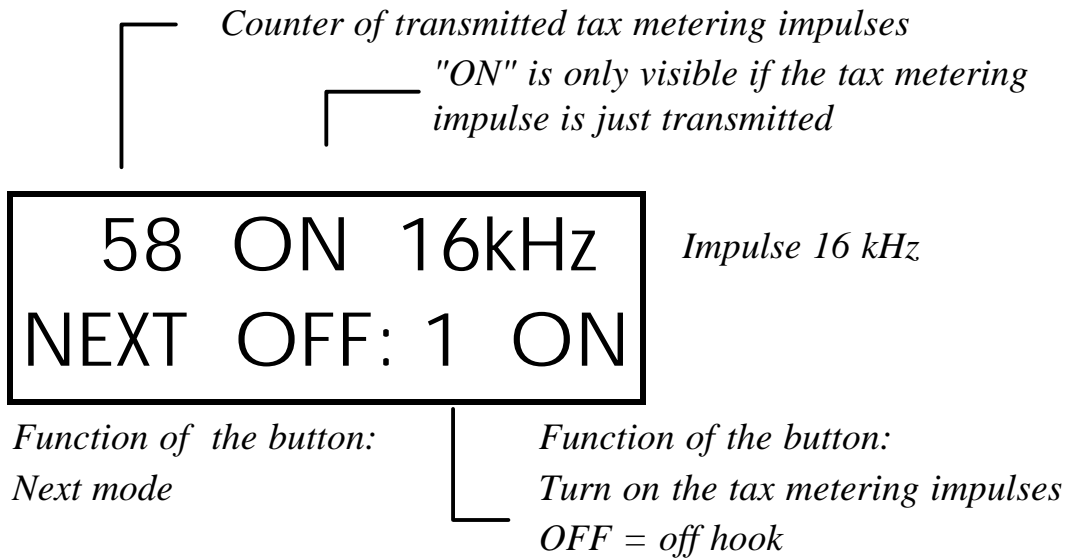
After having switched on, the display shows the text "OFF" instead of the text "ON". Now the button turns this function off.

Transmitting CNG Tones for Facsimiles



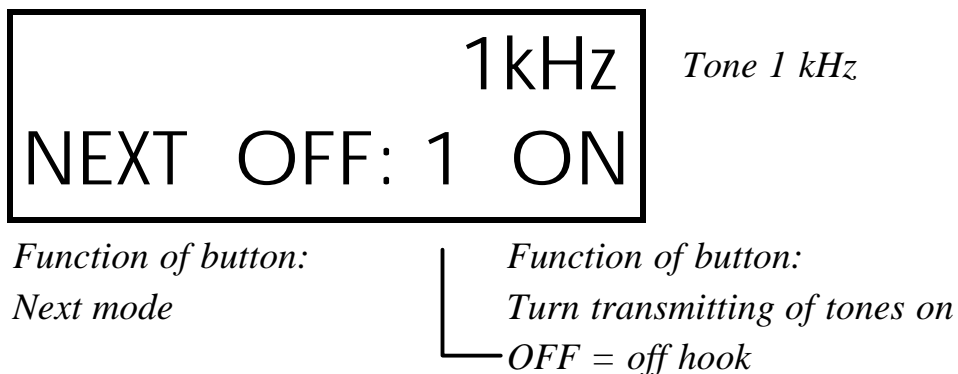
After having switched on, the display shows the text "OFF" instead of the text "ON". Now the button turns this function off.

Transmitting 16kHz Tax Metering Impulses



After having switched on, the display shows the text "OFF" instead of the text "ON". Now the button turns this function off.

Transmitting 1kHz Tones



After having switched on, the display shows the text "OFF" instead of the text "ON". Now the button turns this function off.

Outgoing Calls

After the device is off hook the dial tone will be transmitted. ASIM 10 is now ready to receive and evaluate the tone or pulse dial and it will be displayed (max. 16 characters).

This number can be saved as target number for the second line - push button "SAVE". In this manner it is possible to read out short dial numbers and they can then be saved as dialing numbers to the whole procedure of establishing, holding and terminating a connection test afterwards at the mode "OFFICE".

0042166435927 OFF:1 SAVE

Dialed number

The calling mode (tone or pulse) will be visible here depending on the recognized dialing type

*Function of the button:
Next mode*

*Function of the button:
Save the dialed number*

Modes "CALLING TO 2", "CALLING TO 12"

This function is similar to mode "CALLING TO 1", with the difference that the second or both lines will be used and supervised. The dialed number of an outgoing call can be saved as a target number for the other line.

Mode “OFFICE”

Both Lines work as public telephone office lines. This device is in position to establish the connection, use the connection and terminate the connection between the two lines.

After one line is off hook a calling signal will be generated and the dialing number will be displayed. This number can be programmed in MODE “CALLING TO ..”. This is useful to demonstrate and test short dial memories, dial repeatings and other number memories of telephones, pabx or emergency and alert systems.

After the dial procedure of the displayed number the calling signal will be transmitted to the other line until it is off hook or the calling line is on hook. The dial tone will be transmitted to the calling line.

If the other line is off hook both lines will be connected. Conversations, connection between two facsimiles e.t.c., transmitting CNG signals, 1kHz tones or tax metering impulses are also possible.

If one line goes on hook, the connection will be terminated and a off hook signal will be generated.

Mode “PABX”

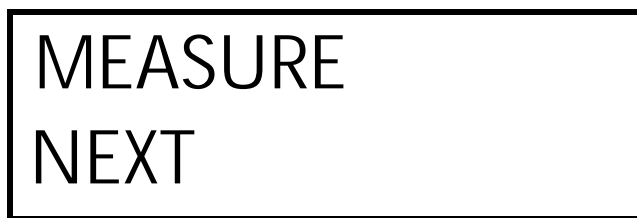
Similar to MODE “OFFICE” with the difference, that after one line goes off hook an internal tone (three short Tones, Pause) will be generated. After dialing the "0" or Flash the simulated public telephone line will be accessible and a dial tone will be generated.

Mode “DTMF-DIALER”

At this mode it is possible to test and demonstrate MFC transmitters with the built-in microphone. The transmitted numbers will be displayed. When pushing the button "CLEAR" the display will be cleared.

The microphone input is at the right side of the enclosure. The sensitivity is so high that it is normally possible to have a distance of 10 cm.

Mode “MEASURE”



*Measure
(ASIM waits for an
impulse dial or a flash
impulse)*

<i>Function of the button:</i>	<i>Function of the button:</i>
<i>Next mode</i>	<i>none</i>

Impulse and break or flash impulse will be measured at pulse or tone dials (dial minimum number 2).

Measure range: 10 to 325 ms.

Technical Reference

Direct current supply of lines	22-24 V / approx. 25 mA each line
Calling signal	min. 36 V eff / 50 Hz
Tax metering impulse	min. -20 dBm (775 mV, Zr-load), 16 kHz, 0,220 s tone / 1,5 s pause
Signaling	ca. 425 Hz, ca. -6 dBm (Zr-load)
CNG signal	minimum level -20 dBm (Zr-load)
- Facsimile	1100 Hz, 0,5 s tone / 3 s pause
- Modem	1300 Hz, 0,5 s tone / 1,5 s pause
Dimensions	200 x 110 x 60 mm
Weight	approx. 900 g
Power supply	230 V \pm 10%, 50 Hz, max. 50 mA
Environmental temp.	0 °C bis +40 °C
Air humidity	up to 95 % (not condensing)

The left button is used to switch to the next mode or function (active if NEXT is displayed), the right button has the function which is displayed at the lower line of the LCD.

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