

NOKIA 22 - *Tone Teaching* feature functionality

1. INTRODUCTION

When the Nokia 22 is used in the extension mode with a PBX there is a need for the detection of the congestion / busy tone of the PBX. Tone detection is needed because the PBX emits the tone when the *hook on* transition occurs in the extension line.

The tone teaching feature in the Nokia 22 is used to teach Nokia 22 the congestion / busy tone of each PBX. This document describes how the Tone Teaching feature is used.

2. HOW TO USE THE TONE TEACHING FEATURE

The Tone Teaching feature can be used only in the extension mode of the Nokia 22 and therefore Nokia 22 must be connected like it's shown in the Figure 1.

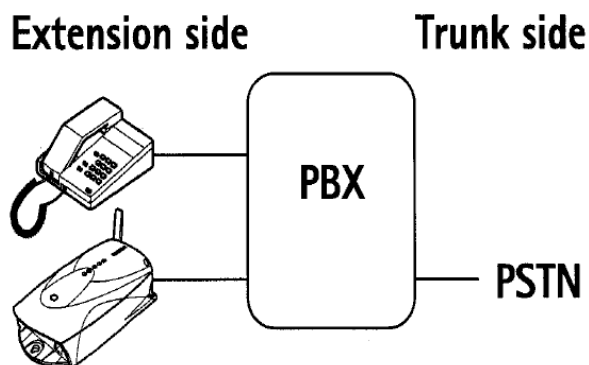


Figure 1. The Nokia 22 connected to the analog extension interface of a PBX.

2.1 Starting the tone teaching

Table 1. Starting the tone teaching feature.

STEP	DIAL	DESCRIPTION
1	xxx	Dial the extension number that the Nokia 22 is connected and wait for the dial tone.
2	** ##### **	Dial the service mode code and wait for the command query beeping.
3	xxxx #	Dial the security code (1234 as default) and a hash mark to speed up the process and wait for the command query beeping.
4	88 ** xxx #	Dial the tone teaching command (88 **) and the extension number that you're calling from and a hash mark. Then wait for the ok-beep. After the ok-beep, hook the handset on.

After the command sequence in the Table 1, the PBX emits the congestion / busy tone and the Nokia 22 is in the tone teaching mode.

After the tone teaching the Nokia 22 calls back to extension number xxx. When the call is answered the Nokia 22 plays the tone that indicates the success of the tone teaching. (see table 2)

Table 2. Results of the tone teaching.

5a	-	If the Nokia 22 plays a command query beeping, then the tone teaching was succesful and the taught parameters has been saved into the nonvolatile memory. From now on the taught values are used in the tone detection and the user can continue with some other service mode command or just hook the handset on.
5b	-	If the Nokia 22 plays a busy tone, then the tone teaching failed and the disabling parameter of the taught values has been saved into the nonvolatile memory. From now on the default values are in use in tone detection. Hook the handset on.

2.2 Disabling the use of the teached tone detecting values

Table 3. Disabling the use of the teached tone detecting values

STEP	DIAL	DESCRIPTION
1		Execute the steps 1...3 from the Table 1.
4	89 **	Dial the disable command (89 **) of the teached tone detecting values and wait for the command query beeps.
5	555 **	Dial the save parameters command (555 **) and wait for the ok-beep. Onhook the handset.

After the command sequence in the Table 3 the Nokia 22 is using default settings in tone detecting.