

## **COUNTRY CODE 27 NEW ZEALAND**

RING FREQUENCY 25 Hz  
RING CADENCE #1 400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF  
RING CADENCE #2 400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF  
RING CADENCE #3 400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF  
RING CADENCE #4 400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF  
RING CADENCE #5 400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF

DIAL TONE #1 CONTINUOUS  
DIAL TONE #2 CONTINUOUS

BUSY TONE 500 mS ON, 500 mS OFF

## **COUNTRY CODE 28 TURKEY**

RING FREQUENCY 25 Hz  
RING CADENCE #1 2000 mS ON, 4000 mS OFF  
RING CADENCE #2 2000 mS ON, 4000 mS OFF  
RING CADENCE #3 2000 mS ON, 4000 mS OFF  
RING CADENCE #4 2000 mS ON, 4000 mS OFF  
RING CADENCE #5 2000 mS ON, 4000 mS OFF

DIAL TONE #1 CONTINUOUS  
DIAL TONE #2 CONTINUOUS

BUSY TONE 750 mS ON, 750 mS OFF

## **COUNTRY CODE 29 SINGAPORE**

RING FREQUENCY 25 Hz  
RING CADENCE #1 400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF  
RING CADENCE #2 400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF  
RING CADENCE #3 400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF  
RING CADENCE #4 400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF  
RING CADENCE #5 400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF

DIAL TONE #1 CONTINUOUS  
DIAL TONE #2 CONTINUOUS

BUSY TONE 750 mS ON, 750 mS OFF

# QUADTEL PLUS

## Four Port Telephone Exchange Simulator

### User Manual



### Issue 1.2



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## SAFETY

Read this manual completely before using the instrument.

1. This product is designed for use by competent personnel.
2. The QUADTEL PLUS is designed to look like an exchange line therefore only telecommunication apparatus designed to connect to telephone lines must be connected to it.
3. Under no circumstances must the QUADTEL PLUS be connected to the Public Switched Telephone Network (PSTN) or any PABX Extension ports.
4. When using the QUADTEL PLUS to test the performance of unapproved telecommunication apparatus, due consideration must be paid to any hazard involved.
5.  **WARNING** The sockets have high voltages present during ringing. Although this is not hazardous, it can be painful. 
6. The unit is designed to be powered from a 230 V, 50 Hz source and the mains plug fitted with a 3 Amp fuse.
7. There are no user serviceable parts in this unit. Under no circumstances should the user attempt to open the unit. If opened, the warranty will be invalidated.
8. Should a problem arise with the product, please return it to a recognised dealer or to:

Tele-Products Limited  
Unit 1D Northminster Business Park  
Northfield Lane Upper Poppleton  
York YO26 6QU  
Tel: +44 (0)1904 794200

When returning the unit to Tele-Products, please contact the Repairs Department to receive a Returns Number. The owner will be advised of any costs prior to work commencing.

## COUNTRY CODE 24 CANADA

RING FREQUENCY	25 Hz
RING CADENCE #1	2000 mS ON, 4000 mS OFF
RING CADENCE #2	2000 mS ON, 4000 mS OFF
RING CADENCE #3	2000 mS ON, 4000 mS OFF
RING CADENCE #4	2000 mS ON, 4000 mS OFF
RING CADENCE #5	2000 mS ON, 4000 mS OFF

DIAL TONE #1	CONTINUOUS
DIAL TONE #2	CONTINUOUS

BUSY TONE	500 mS ON, 500 mS OFF
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## COUNTRY CODE 25 AUSTRALIA

RING FREQUENCY	16 Hz
RING CADENCE #1	400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF
RING CADENCE #2	400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF
RING CADENCE #3	400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF
RING CADENCE #4	400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF
RING CADENCE #5	400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF

DIAL TONE #1	CONTINUOUS
DIAL TONE #2	CONTINUOUS

BUSY TONE	375 mS ON, 375 mS OFF
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## COUNTRY CODE 26 HONG KONG

RING FREQUENCY	25 Hz
RING CADENCE #1	400 mS ON, 200 mS OFF, 400 mS ON, 3000 mS OFF
RING CADENCE #2	400 mS ON, 200 mS OFF, 400 mS ON, 3000 mS OFF
RING CADENCE #3	400 mS ON, 200 mS OFF, 400 mS ON, 3000 mS OFF
RING CADENCE #4	400 mS ON, 200 mS OFF, 400 mS ON, 3000 mS OFF
RING CADENCE #5	400 mS ON, 200 mS OFF, 400 mS ON, 3000 mS OFF

DIAL TONE #1	CONTINUOUS
DIAL TONE #2	CONTINUOUS

BUSY TONE	500 mS ON, 500 mS OFF
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## COUNTRY CODE 21 CZECH REPUBLIC

RING FREQUENCY	25 Hz
RING CADENCE #1	1000 mS ON, 4000 mS OFF
RING CADENCE #2	400 mS ON, 200 mS OFF, 400 mS ON, 3000 mS OFF
RING CADENCE #3	400 mS ON, 200 mS OFF, 400 mS ON, 200 mS OFF, 400 mS ON, 2400 mS OFF
RING CADENCE #4	1000 mS ON, 1000 mS OFF
RING CADENCE #5	1000 mS ON, 4000 mS OFF
DIAL TONE #1	CONTINUOUS
DIAL TONE #2	CONTINUOUS
BUSY TONE	500 mS ON, 500 mS OFF

## COUNTRY CODE 22 SOUTH AFRICA

RING FREQUENCY	16 Hz
RING CADENCE #1	400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF
RING CADENCE #2	400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF
RING CADENCE #3	400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF
RING CADENCE #4	400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF
RING CADENCE #5	400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF
DIAL TONE #1	CONTINUOUS
DIAL TONE #2	CONTINUOUS
BUSY TONE	500 mS ON, 500 mS OFF

## COUNTRY CODE 23 USA

RING FREQUENCY	25 Hz
RING CADENCE #1	2000 mS ON, 4000 mS OFF
RING CADENCE #2	2000 mS ON, 4000 mS OFF
RING CADENCE #3	2000 mS ON, 4000 mS OFF
RING CADENCE #4	2000 mS ON, 4000 mS OFF
RING CADENCE #5	2000 mS ON, 4000 mS OFF
DIAL TONE #1	CONTINUOUS
DIAL TONE #2	CONTINUOUS
BUSY TONE	500 mS ON, 500 mS OFF

## OPERATING INSTRUCTIONS

### Call Processing

The Quadtel Plus ports are numbered 1, 2, 3 & 4. As soon as an extension is taken Off-hook, a dial tone will be supplied. To ring a port simply dial its number.

If an invalid number is dialled a busy tone will be supplied.

When a port has been called it will start to ring. The call is answered by the device connected to the port coming Off-hook. The two devices are then provided with a speech path. The call is ended by either device going On-hook. The system will then provide busy tone.

### Country Variants

For some country variants two types of dial tone are provided. Where this is the case, type 1 is heard at ports 1 and 2, and type 2 is heard at ports 3 and 4.

There are a maximum of five ring cadences for each country variant. The first is used when a port is dialled directly. The remaining four are obtained by inserting a number 5, 6, 7, or 8 before the extension number, ie to dial extension 2 using the fourth cadence dial '72'.

The country variant is selected by dialling '#nn', where 'nn' is the code for the required variant. After this is dialled the Power LED will extinguish while the Quadtel Plus updates the information. Once a new country is programmed, the information will be retained in the Quadtel Plus even when the power is removed.

For details of the country variants see the appendix.

## Supply

The unit is designed to be powered from the mains 230 V, 50 Hz. The mains must be connected via the lead attached. Once power has been applied the Power-On indicator will light.

Please note that there is no power switch on the unit and the only way to isolate from the supply is to unplug the unit from the mains.

## Port Wiring

The socket wiring is representative of a standard BT/Cable socket with DC feed on Pins 2 and 5. The line polarity is set so that Pin 5 is Positive with respect to Pin 2. The ringing is supplied on Pin 4. Note: there is no earth connection. When supplied with RJ11 sockets, DC feed is provided via Pins 3 and 2, with Pin 3 Positive with respect to Pin 2.

## Dialling

Quadtel Plus will only operate with Tone dialling.

### COUNTRY CODE 18 UK (BT)

RING FREQUENCY	25 Hz
RING CADENCE #1	400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF
RING CADENCE #2	1000 mS ON, 2000 mS OFF
RING CADENCE #3	250 mS ON, 250 mS OFF, 250 mS ON, 250 mS OFF, 250 mS ON, 1750 mS OFF
RING CADENCE #4	400 mS ON, 800 mS OFF
RING CADENCE #5	2000 mS ON, 4000 mS OFF
DIAL TONE #1	CONTINUOUS
DIAL TONE #2	750 mS ON, 750 mS OFF
BUSY TONE	375 mS ON, 375 mS OFF

### COUNTRY CODE 19 UK (ATLANTIC TELECOM #1)

RING FREQUENCY	25 Hz
RING CADENCE #1	1500 mS ON, 500 mS OFF, 500 mS ON, 500 mS OFF, 500 mS ON, 2500 mS OFF
RING CADENCE #2	1500 mS ON, 500 mS OFF, 1500 mS ON, 2500 mS OFF
RING CADENCE #3	1500 mS ON, 4500 mS OFF
RING CADENCE #4	1500 mS ON, 500 mS OFF 500 mS ON, 3500 mS OFF
RING CADENCE #5	1500 mS ON, 500 mS OFF, 500 mS ON, 500 mS OFF, 1000 mS ON, 2000 mS OFF
DIAL TONE #1	CONTINUOUS
DIAL TONE #2	CONTINUOUS
BUSY TONE	375 mS ON, 375 mS OFF

### COUNTRY CODE 20 UK (ATLANTIC TELECOM #2)

RING FREQUENCY	25 Hz
RING CADENCE #1	1000 mS ON, 500 mS OFF, 1000 mS ON, 3500 mS OFF
RING CADENCE #2	500 mS ON, 500 mS OFF, 500 mS ON, 500 mS OFF, 1000 mS ON, 3000 mS OFF
RING CADENCE #3	500 mS ON, 500 mS OFF, 1000 mS ON, 500 mS OFF, 500 mS ON, 3000 mS OFF
RING CADENCE #4	1000 mS ON, 500 mS OFF, 1000 mS ON, 3500 mS OFF
RING CADENCE #5	1000 mS ON, 500 mS OFF, 1000 mS ON, 3500 mS OFF
DIAL TONE #1	CONTINUOUS
DIAL TONE #2	CONTINUOUS
BUSY TONE	375 mS ON, 375 mS OFF

**COUNTRY CODE 15 SPAIN**

RING FREQUENCY 25 Hz  
 RING CADENCE #1 1500 mS ON, 3000 mS OFF  
 RING CADENCE #2 1500 mS ON, 3000 mS OFF  
 RING CADENCE #3 1500 mS ON, 3000 mS OFF  
 RING CADENCE #4 1500 mS ON, 3000 mS OFF  
 RING CADENCE #5 1500 mS ON, 3000 mS OFF

DIAL TONE #1 CONTINUOUS  
 DIAL TONE #2 1000 mS ON, 100 mS OFF

BUSY TONE 200 mS ON, 200 mS OFF

**COUNTRY CODE 16 SWEDEN**

RING FREQUENCY 25 Hz  
 RING CADENCE #1 1000 mS ON, 5000 mS OFF  
 RING CADENCE #2 300 mS ON, 400 mS OFF  
 RING CADENCE #3 330 mS ON, 330 mS OFF, 330 mS ON, 5000 mS OFF  
 RING CADENCE #4 1000 mS ON, 5000 mS OFF  
 RING CADENCE #5 1000 mS ON, 5000 mS OFF

DIAL TONE #1 CONTINUOUS  
 DIAL TONE #2 350 mS ON, 50 mS OFF

BUSY TONE 250 mS ON, 250 mS OFF

**COUNTRY CODE 17 SWITZERLAND**

RING FREQUENCY 25 Hz  
 RING CADENCE #1 1000 mS ON, 4000 mS OFF  
 RING CADENCE #2 330 mS ON, 330 mS OFF, 330 mS ON, 4000 mS OFF  
 RING CADENCE #3 400 mS ON, 400 mS OFF, 400 mS ON, 400 mS OFF,  
 400 mS ON, 3000 mS OFF  
 RING CADENCE #4 CONTINUOUS  
 RING CADENCE #5 1000 mS ON, 4000 mS OFF

DIAL TONE #1 CONTINUOUS  
 DIAL TONE #2 1100 mS ON, 1100 mS OFF

BUSY TONE 500 mS ON, 500 mS OFF

**SPECIFICATION**

<b>FEED CONDITIONS</b>	DC VOLTAGE	24 V
<b>RINGING</b>	VOLTAGE	70 V rms
	FREQUENCY	As selected
	CADENCE	As selected
<b>EXCHANGE TONES</b>	FREQUENCY	400 Hz
	LEVEL	-25 dBm $\pm$ 4 dB
<b>DIAL CADENCE</b>		As selected
<b>BUSY CADENCE</b>		As selected
<b>RING CADENCE</b>		As selected
<b>ATTENUATION</b>		10 dB Port to Port
<b>TONE DIALLING</b>	TIME	> 60 mS
	ACCEPT FREQUENCY	$\pm$ 1.5%
	REJECT FREQUENCY	$\pm$ 3.5%
<b>TOLERANCE</b>	FREQUENCY	$\pm$ 10%
unless otherwise specified	TIMING	$\pm$ 10%
	VOLTAGE	$\pm$ 10%
<b>POWER</b>	MAINS	230 V, 50 Hz, 50 mA

## APPENDIX

CODE	Country
00	Austria
01	Belgium
02	Cyprus
03	Denmark
04	Finland
05	France
06	Germany
07	Greece
08	Iceland
09	Ireland
10	Italy
11	Luxembourg
12	Netherlands
13	Norway
14	Portugal
15	Spain
16	Sweden
17	Switzerland
18	UK (BT ringing )
19	UK (Atlantic Telecom ringing #1)
20	UK (Atlantic Telecom ringing #2)
21	Czech Republic
22	South Africa
23	USA
24	Canada
25	Australia
26	Hong Kong
27	New Zealand
28	Turkey
29	Singapore

### COUNTRY CODE 12 NETHERLANDS

RING FREQUENCY	25 Hz
RING CADENCE #1	1000 mS ON, 4000 mS OFF
RING CADENCE #2	1000 mS ON, 4000 mS OFF
RING CADENCE #3	1000 mS ON, 4000 mS OFF
RING CADENCE #4	1000 mS ON, 4000 mS OFF
RING CADENCE #5	1000 mS ON, 4000 mS OFF

DIAL TONE #1	CONTINUOUS
DIAL TONE #2	500 mS ON, 50 mS OFF

BUSY TONE	250 mS ON, 250 mS OFF
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### COUNTRY CODE 13 NORWAY

RING FREQUENCY	25 Hz
RING CADENCE #1	1000 mS ON, 4000 mS OFF
RING CADENCE #2	300 mS ON, 300 mS OFF
RING CADENCE #3	200 mS ON, 200 mS OFF, 400 mS ON, 200 mS OFF
RING CADENCE #4	200 mS ON, 200 mS OFF, 400 mS ON, 4200 mS OFF
RING CADENCE #5	300 mS ON, 400 mS OFF, 300 mS ON, 4000 mS OFF

DIAL TONE #1	CONTINUOUS
DIAL TONE #2	400 mS ON, 400 mS OFF

BUSY TONE	500 mS ON, 500 mS OFF
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### COUNTRY CODE 14 PORTUGAL

RING FREQUENCY	25 Hz
RING CADENCE #1	1000 mS ON, 5000 mS OFF
RING CADENCE #2	1000 mS ON, 5000 mS OFF
RING CADENCE #3	1000 mS ON, 5000 mS OFF
RING CADENCE #4	1000 mS ON, 5000 mS OFF
RING CADENCE #5	1000 mS ON, 5000 mS OFF

DIAL TONE #1	CONTINUOUS
DIAL TONE #2	1000 mS ON, 200 mS OFF

BUSY TONE	500 mS ON, 500 mS OFF
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**COUNTRY CODE 09 IRELAND**

RING FREQUENCY 25 Hz  
 RING CADENCE #1 400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF  
 RING CADENCE #2 400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF  
 RING CADENCE #3 400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF  
 RING CADENCE #4 400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF  
 RING CADENCE #5 400 mS ON, 200 mS OFF, 400 mS ON, 2000 mS OFF

DIAL TONE #1 CONTINUOUS  
 DIAL TONE #2 CONTINUOUS

BUSY TONE 500 mS ON, 500 mS OFF

**COUNTRY CODE 10 ITALY**

RING FREQUENCY 25 Hz  
 RING CADENCE #1 1000 mS ON, 4000 mS OFF  
 RING CADENCE #2 400 mS ON, 200 mS OFF, 400 mS ON, 200 mS OFF,  
 800 mS ON, 4000 mS OFF  
 RING CADENCE #3 1000 mS ON, 4000 mS OFF  
 RING CADENCE #4 1000 mS ON, 4000 mS OFF  
 RING CADENCE #5 1000 mS ON, 4000 mS OFF

DIAL TONE #1 200 mS ON, 200 mS OFF, 600 mS ON, 1000 mS OFF  
 DIAL TONE #2 CONTINUOUS

BUSY TONE 500 mS ON, 500 mS OFF

**COUNTRY CODE 11 LUXEMBOURG**

RING FREQUENCY 25 Hz  
 RING CADENCE #1 1000 mS ON, 4000 mS OFF  
 RING CADENCE #2 1000 mS ON, 5000 mS OFF  
 RING CADENCE #3 1000 mS ON, 4000 mS OFF  
 RING CADENCE #4 1000 mS ON, 4000 mS OFF  
 RING CADENCE #5 1000 mS ON, 4000 mS OFF

DIAL TONE #1 CONTINUOUS  
 DIAL TONE #2 CONTINUOUS

BUSY TONE 500 mS ON, 500 mS OFF

**COUNTRY CODE 00 AUSTRIA**

RING FREQUENCY 50 Hz  
 RING CADENCE #1 1000 mS ON, 5000 mS OFF  
 RING CADENCE #2 1000 mS ON, 5000 mS OFF  
 RING CADENCE #3 1000 mS ON, 5000 mS OFF  
 RING CADENCE #4 1000 mS ON, 5000 mS OFF  
 RING CADENCE #5 1000 mS ON, 5000 mS OFF

DIAL TONE #1 CONTINUOUS  
 DIAL TONE #2 1200 mS ON, 650 mS OFF, 300 mS ON, 250 mS OFF

BUSY TONE 300 mS ON, 300 mS OFF

**COUNTRY CODE 01 BELGIUM**

RING FREQUENCY 25 Hz  
 RING CADENCE #1 1000 mS ON, 3000 mS OFF  
 RING CADENCE #2 1000 mS ON, 3000 mS OFF  
 RING CADENCE #3 1000 mS ON, 3000 mS OFF  
 RING CADENCE #4 1000 mS ON, 3000 mS OFF  
 RING CADENCE #5 1000 mS ON, 3000 mS OFF

DIAL TONE #1 CONTINUOUS  
 DIAL TONE #2 1000 mS ON, 250 mS OFF

BUSY TONE 500 mS ON, 500 mS OFF

**COUNTRY CODE 02 CYPRUS**

RING FREQUENCY 25 Hz  
 RING CADENCE #1 1500 mS ON, 3000 mS OFF  
 RING CADENCE #2 1500 mS ON, 3000 mS OFF  
 RING CADENCE #3 1500 mS ON, 3000 mS OFF  
 RING CADENCE #4 1500 mS ON, 3000 mS OFF  
 RING CADENCE #5 1500 mS ON, 3000 mS OFF

DIAL TONE #1 CONTINUOUS  
 DIAL TONE #2 CONTINUOUS

BUSY TONE 500 mS ON, 500 mS OFF

**COUNTRY CODE 03 DENMARK**

RING FREQUENCY 25 Hz  
 RING CADENCE #1 750 mS ON, 7500 mS OFF  
 RING CADENCE #2 300 mS ON, 1200 mS OFF  
 RING CADENCE #3 500 mS ON, 700 mS OFF  
 RING CADENCE #4 750 mS ON, 7500 mS OFF  
 RING CADENCE #5 750 mS ON, 7500 mS OFF

DIAL TONE #1 CONTINUOUS  
 DIAL TONE #2 CONTINUOUS

BUSY TONE 450 mS ON, 450 mS OFF

**COUNTRY CODE 04 FINLAND**

RING FREQUENCY 25 Hz  
 RING CADENCE #1 1000 mS ON, 4000 mS OFF  
 RING CADENCE #2 300 mS ON, 4000 mS OFF  
 RING CADENCE #3 300 mS ON, 300 mS OFF, 300 mS ON, 4000 mS OFF  
 RING CADENCE #4 300 mS ON, 300 mS OFF, 2000 mS ON, 4000 mS OFF  
 RING CADENCE #5 300 mS ON, 300 mS OFF, 5000 mS ON, 4000 mS OFF

DIAL TONE #1 CONTINUOUS  
 DIAL TONE #2 CONTINUOUS

BUSY TONE 300 mS ON, 300 mS OFF

**COUNTRY CODE 05 FRANCE**

RING FREQUENCY 50 Hz  
 RING CADENCE #1 1500 mS ON, 3500 mS OFF  
 RING CADENCE #2 750 mS ON, 1500 mS OFF  
 RING CADENCE #3 2000 mS ON, 1000 mS OFF  
 RING CADENCE #4 1500 mS ON, 3500 mS OFF  
 RING CADENCE #5 1500 mS ON, 3500 mS OFF

DIAL TONE #1 CONTINUOUS  
 DIAL TONE #2 CONTINUOUS

BUSY TONE 500 mS ON, 500 mS OFF

**COUNTRY CODE 06 GERMANY**

RING FREQUENCY 25 Hz  
 RING CADENCE #1 1000 mS ON, 4000 mS OFF  
 RING CADENCE #2 1000 mS ON, 4000 mS OFF  
 RING CADENCE #3 1000 mS ON, 4000 mS OFF  
 RING CADENCE #4 1000 mS ON, 4000 mS OFF  
 RING CADENCE #5 1000 mS ON, 4000 mS OFF

DIAL TONE #1 CONTINUOUS  
 DIAL TONE #2 CONTINUOUS

BUSY TONE 500 mS ON, 500 mS OFF

**COUNTRY CODE 07 GREECE**

RING FREQUENCY 16 Hz  
 RING CADENCE #1 1000 mS ON, 4000 mS OFF  
 RING CADENCE #2 1000 mS ON, 4000 mS OFF  
 RING CADENCE #3 1000 mS ON, 4000 mS OFF  
 RING CADENCE #4 1000 mS ON, 4000 mS OFF  
 RING CADENCE #5 1000 mS ON, 4000 mS OFF

DIAL TONE #1 CONTINUOUS  
 DIAL TONE #2 CONTINUOUS

BUSY TONE 300 mS ON, 300 mS OFF

**COUNTRY CODE 08 ICELAND**

RING FREQUENCY 25 Hz  
 RING CADENCE #1 1200 mS ON, 4700 mS OFF  
 RING CADENCE #2 1200 mS ON, 4700 mS OFF  
 RING CADENCE #3 1200 mS ON, 4700 mS OFF  
 RING CADENCE #4 1200 mS ON, 4700 mS OFF  
 RING CADENCE #5 1200 mS ON, 4700 mS OFF

DIAL TONE #1 CONTINUOUS  
 DIAL TONE #2 CONTINUOUS

BUSY TONE 250 mS ON, 250 mS OFF