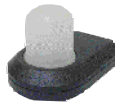




# 5004 Centrex Call Module USER GUIDE

## Optional Enhancement Products

### 1127 P Visual Indicator



A desktop or mountable visual indicator for in-use notification. Designed to be visible from all angles.



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## Warranty and Repairs

The 5004 Centrex Call Module is warranted to be free of defects in material and workmanship for a period of 18 months from the date of manufacture.

If you need to return this product for repair, please contact Algo Communication Products for a Return Merchandise Authorization number and instruction prior to shipment. All products returned for repair should be shipped freight prepaid with the RMA# clearly visible on the package. Products will be returned freight collect for out-of-warranty repairs or returned prepaid for warranty repairs in Canada or the USA.

In Canada, ship product for repair with RMA# to:

### **Algo Communication Products Ltd.**

Repair Center  
4500 Beedie Street  
Burnaby, BC, Canada, V5J 5L2

**Tel** (604) 454-3790

**Fax** (604) 437-5726

Outside of Canada, please contact Algo for nearest repair center.

# Table of Contents

	PAGE
About the 5004 Centrex Call Module . . . . .	2
LED Indicators . . . . .	2
Installation . . . . .	2
Configuring the 5004 Centrex Call Module . . . . .	3
Programmable Features . . . . .	3
Call Record Format . . . . .	5
Specifications . . . . .	7
Ordering Information . . . . .	7
Warranty and Repairs . . . . .	8
Optional Enhancement Products . . . . .	9

## About the 5004 Centrex Call Module

The 5004 Centrex Call Module allows you to manage calls more effectively by providing call detail recording information, analog audio output for recording and relay outputs for in-use, message waiting and ring.

Call detail information is provided in SL-1 format compatible with most third-party CDR software.

The analog output for voice recording can be connected to a desktop voice recorder, PC sound card or to a remote multi-channel analog audio recorder.

## LED Indicators

1. POWER - indicates power-on state
2. MSG WAIT - indicates when the message waiting lamp is on
3. RING - indicates a ring signal present
4. IN USE - indicates the phone off-hook state.

## Installation

Connect a telephone cord from a MBS Centrex telephone to the jack labeled "TEL" on the 5004 unit. Connect a second telephone cord from the jack labeled "LINE" on the 5004 unit to a Centrex wall mounted jack. Allow a couple of seconds for the telephone to connect, then lift the receiver and check for dial-tone. Connect the power supply to the 5004 unit. The "POWER" LED should light up. Lift the telephone receiver and insure that "IN-USE" LED comes on.

## Specifications

OUTPUT	1 Amp, 30V dry contact
POWER SUPPLY	24VDC 200mA adapter included
CABLES	7 feet (2.1m) 6 conductor telephone line incl.

## Ordering Information

**Tel:** (604) 438-3333

**Fax:** (604) 437-5726

**Email:** sales@algosolutions.com

For technical support, contact us at 1 (877) 884-2546.

## Call Record Format Cont'd

Normal records contain information about completed calls. The format of an N record is as follows:

FIELD	COL.	WIDTH	CONTENT	DEFINITION
Record Type	0	1	N	Record Type N
Record Number	2	3	nnn	Record sequence number 001-127 the repeat
Customer #	6	2	00	Customer #, always 00
Originating ID	9	7	DNnnnn OR nnnnnnn	Originating ID
Terminating ID	17	7	DNnnnn OR nnnnnnn	Terminating ID
Aux ID	25	11	Blank	Auxilliary ID, not used
Date	37	5	MM/DD	Date of start of call MM = month (01 - 12) DD = day (00 - 31)
Time	43	5	HH:MM	Time of start of call HH = hour (00 - 23) MM = minute (00 - 59)
Duration	49	8	HH:MM:SS	Call duration HH = hour (00 - 23) MM = minute (00 - 59) SS = second (00-59)
Digits	58	32	nnnn...	Digits dialed on outgoing or incoming calls

**Note:** DN numbers are reported as "DNnnnn" if 4 digits or less are entered for the DN in the 5004 configuration. If the DN is greater than 4 (less than 7), then the number is left justified and the remaining fields are filled with blanks.

## Configuring the 5004

The telephone must be on-hook to enter programming information. To enter programming mode, press \*\*, then the feature number to be programmed (ie. 2 to set the date and time). Pushing \*\* exits the programming mode and saves the information programmed. When entering the programming mode all the LEDs will turn on and will return to their prior state when exiting programming mode. If information is accidentally entered incorrectly the RLS key on the phone will exit programming mode and will not save the entered information.

### Programmable Features

1. The set DN (Directory Number) up to 7 digits.  
eg. if your DN is 775 then you would program it as follows:  
`**1 775 ** .`
2. The date and time in the format YYMMDDHHMM.  
eg. the date and time 1 January, 2002 10:25 would be programmed as follows:  
`**2 0201011025 ** .`
3. Message waiting key (the key on a MBS phone used for message waiting indication).  
eg. if KEY 9 of your MBS set is used to indicate message waiting, it would be programmed as follows:  
`**3 <KEY 9> ** ,` where <KEY 9> is the single function key.

## Programmable Features Cont'd

4. The baud rate used by the serial interface to a PC or printer. The baud rate can be set for 1200, 2400, 9600 or 19200.

CODE	BAUD RATE
1	2400
2	4800
3	9600
4	19200

eg. a baud rate of 9600 would be programmed as follows:

**\*\*43\*\*** .

5. Relay outputs on the 5004 for ring, message waiting and in-use indication.

CODE	R1	R2
1	RING	MSG
2	MSG	IN USE
3	RING	IN USE

eg. to program relay 1 to indicate message waiting and relay 2 to indicate in use, enter the following:

**\*\*5 2\*\*** .

6. After programming the 5004, your configuration can be verified by pressing: **\*\* 0\*\***. The 5004 will output the configuration setting in the following format:

```
DN:      **1DN**
MSG key: -
Relays:  3
Baud:    19200
```

Note that this is not a proper SL-1 format and is only meant for verifying the unit's configuration via a terminal program.

## Call Record Format

The 5004 generates 2 different call record types: N and U.

**N** - Normal call records

**U** - Unanswered call records

Each record contains a number of ASCII fields. Each field is separated by a space and each record is terminated by a carriage return and line feed. An example is as follows:

```
N 007 00 0000000 **7DN** 00000000000 00/00 00:00 00:00:05 96044383333
```