

OS2030M.DOC
AUTHOR: W.J.W.V.
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PRODUCT LL2030M
Management System.
USER MANUAL
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PRODUCT DESCRIPTION

GENERAL

This document describes the operation of the Management system used on the OS2030 (G703 drop and insert system).

The software is compatible with a PC operating windows 95 or 98 , 2000. It requires a serial port to communicate with the OS2030 unit. The software is supplied with a Serial cable terminated in a DB9 connector. A second cable is supplied with a header. This cable is used to communicate with the OS304M directly. To do this the OS304M must be opened and the cable plugged into the serial port directly on the PCB. Ensure that the polarity of the connector is correct. See board layout diagram in OS304U Users manual.

Connection.

The only connection required is a RS232 interface with a straight connection to the unit. Maximum distance for operation is 25meters.

The connection is:

pin 2 = Transmit,

Pin 3 = Receive,

Pin 5 = Gnd.

Installation.

Insert the installation disk and type a:\setup. Or run the setup from CD supplied.

Answer the questions in the installation instructions.

Copy the data files to the data directory. If necessary.

Once the software is installed it can be selected from the OS2030 Icon.

When additional files are supplied these must be copied into the data directory.

CONFIG.

First select 'Config' on the menu.

Set up the serial port if it is not already done.

The comm. Port is selected to suit the system.

The baud rate must be 9600, no parity, 8 bits.

Select the Name block and enter 'sys' the cursor will go the password block. Now enter 'syspass'. This will give you access to the system and other passwords can now be created.

Then enter your name and password. The password will allow you certain levels of access.

TIMESLOTS.

Next the time slots for the master station (OS2030) can be interrogated. If a system is newly installed the timeslots must be allocated, and then downloaded to the master station.

Alternatively the timeslot information can be uploaded to the PC altered and then sent down to the master unit again.

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The user can also keep a copy of the timeslot information as backup on the PC. Note of warning here is that it is essential to maintain the system then with only one PC.

The user will notice that the time slot information for a system has 30 channels. Channels 1 to 4 can be allocated to outstation 1 and channels 5 to 8 are allocated to outstation 2 etc. Should you allocate the same time slot to two outstations the data will be overwritten at the second outstation thus the communication with the first outstation will be lost. Time slots 0 and 16 is used by the system and can not be allocated to a channel.

Note that any time slot except 0 and 16 can be allocated to any outstation or channel. The same time slot can not be allocated to two channels in the same outstation, this causes a data conflict in the unit.

When allocating time slots for tele control, point to multipoint configuration can be implemented in the following way. One time slot is chosen for transmit and another is chosen for receive. The transmit time slot at the master is configured as the receive timeslot on the outstations. Thus the audio from the master will be broadcast to the outstations. The transmit time slots on the outstations must be allocated as the receive time slot at the master unit. When an outstation answers the master a VOX detector will switch the audio into the time slot thus enabling only one outstation to answer. The 'vox' level is set at -14dB.

In a master / slave configuration for the OS304m It is essential to allocate the same time slot to the same channel. This will then allow communication between the two boxes on that particular channel. Note that dipswitch 4 will select a master unit in this configuration.

The user can fill in text for each time slot to identify the allocated line and location. This is done only as a feature for record purposes.

Each channel can be modified to suit the requirements. Identification of the type of interface connected to that channel is done by inserting a number in the Type column. This will set up the default configuration of the channel. This configuration can be overwritten in the timeslot file. If it is required to have a new default configuration it can be modified in the 'config' window.

The number corresponds as follows.

- 1 = Not used.
- 2 = Telephone unit.
- 3 = 4W E & M unit.
- 4 = Exchange unit.
- 5 = 4W E & M plus alarm input
- 6 = reserved for future use.

When the type is entered the gain and hybrid values are set to the default values.

The gain of each channel can be adjusted. Note that for normal operation the gain of a telephone circuit must be set to 0dB.

4W E & M circuit must be set at +6dB transmit and 0dB receive.

Hybrid parameters must not be changed and should be set to 00.

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Next you can select to save the time slot information as a file. Please give it a file name which is recognisable and can be identified with the master.

Finally the file must be downloaded to the master unit. Select download to master. The changes will take effect after a few minutes.

The master unit (OS2030) will indicate initialise while it prepares the data. It will then indicate 'TS outstation Nbr' While it transmits the data to the outstations. This will take a few minutes. It is advised that the system must not be disturbed at this time as it may corrupt the data and could result in requiring a more complicated download of data.

In the same way new software can be downloaded to the master and slaves.

ALARMS

A Facility exist to upload the alarms and events from the master unit. Select upload alarms. You can now step through the alarms and also print them as required.

DOWNLOAD.

This function allows the downloading of new software to the master and outstation. Select the function from the menu and make sure the correct file is highlighted and click on download. Once the software is downloaded the master unit will again download it to all the slave units. It is advisable not to disturb the system while this procedure is taking place.

STATUS.

This function observes the signalling of all 30 channels. It is used to indicate the active channels. It can be used to determine if any users are busy before work is done on the system. It also indicates the alarm condition at the outstation.

UPLOAD.

This function is only used for debug purposes.

Once the configuration is completed the serial cable can be removed and the unit will function independently.

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