The Application Note is pertinent to the Unidrive Family

UniSoft and the Option Modules

Accessing Option Menus with UniSoft "Off-Line"

When demonstrating UniSoft it is sometimes desirable to examine the graphic block diagram for the various SOM's (Small Option Modules) however, UniSoft readily doesn't allow a SOM diagram to appear unless it is connected on-line with a Unidrive that has a particular SOM in it. Attempting to bring up an SOM block diagram will yield the message: **No Option Module Fitted**
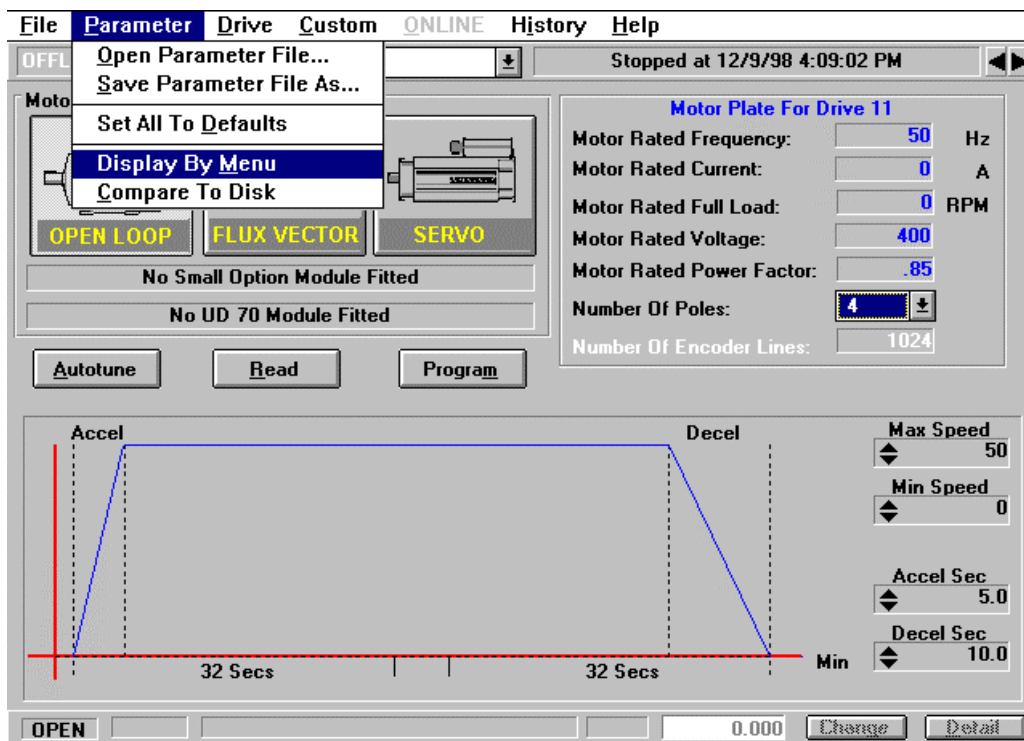
More importantly, it is desirable to be able to pre-configure a Unidrive using UniSoft while in the office and create a setup file without being connected to a drive. Your setup may be requiring a SOM but it not intuitively apparent how to achieve setting it up in the "off-line" state.
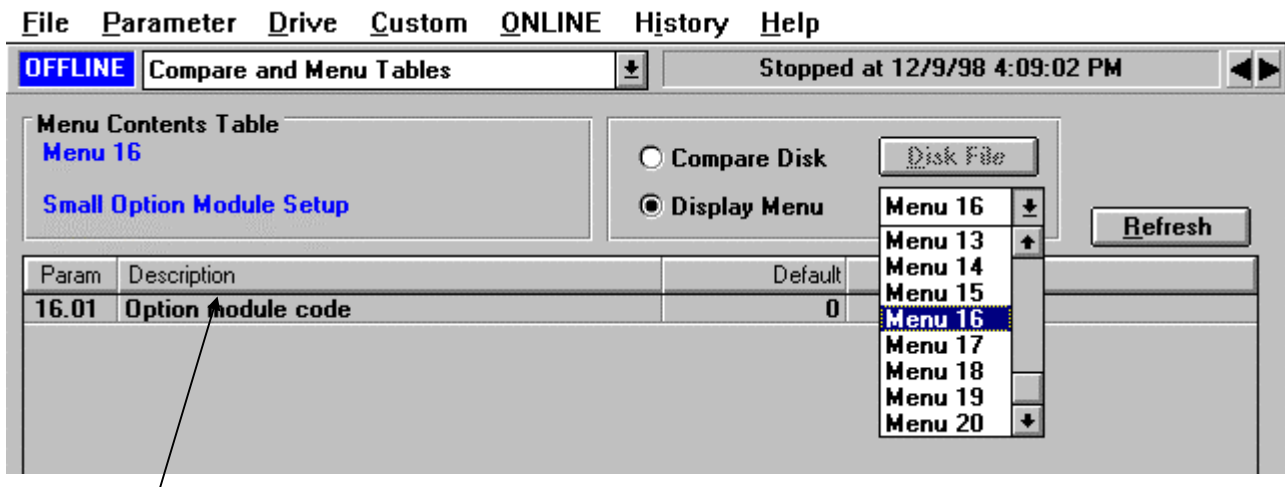
Hint:

The SOM block diagrams can be activated using the following procedure:

1)   Go to the **PARAMETER** pull down menu and select **DISPLAY BY MENU**

2)   Select **MENU 16** from the pull down menu and this will make the SOM code number available

3)   If you **double-click** on the Option module code line, a description of the option module codes will appear.

Detail for Menu 16 Parameter 1

Notes Search

MENU	PARAM		
16	01		

Option module code

Type: URW
Default: 0
Range: 4
Units:

Change   16.01

0   Close
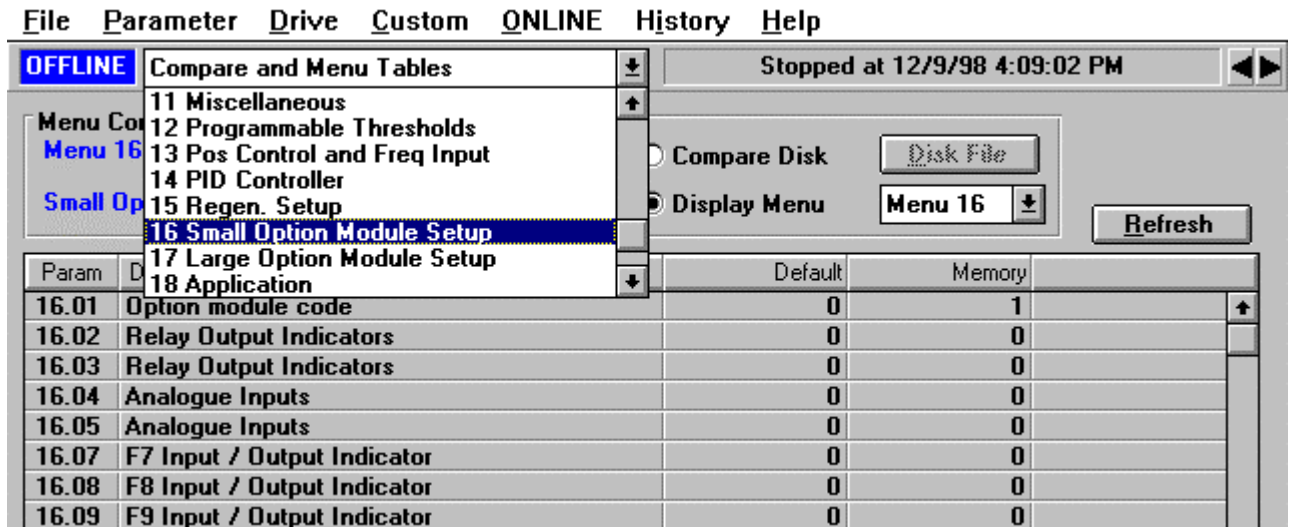
Optiom module code

This parameter will display a code depending on which option module is fitted.

The allocated codes are:

0   No option module detected
1   Additional I/O module
2   Second Encoder interface module
3   Resolver feedback module
4   Sine-Cos encoder interface module

4)   You would then change the code from 0 to 1-4 from the table above, this can be done from this description window.

5) After you've made your SOM selection, you can now go to the pull down menu and select **MENU 16** and that block diagram will now be visible and will be able to be manipulated.

| File | Parameter | Drive | Custom | ONLINE | History | Help |

| OFFLINE | Compare and Menu Tables | ↧ | Stopped at 12/9/98 4:09:02 PM | ◀▶ |

Menu Co| 11 Miscellaneous
Menu 16| 12 Programmable Thresholds
| 13 Pos Control and Freq Input
Small Op| 14 PID Controller
| 15 Regen. Setup
| 16 Small Option Module Setup
| 17 Large Option Module Setup
| 18 Application

○ Compare Disk   Disk File
● Display Menu   Menu 16 ↧   Refresh

Param	D		Default	Memory	
16.01	Option module code		0	1	↥
16.02	Relay Output Indicators		0	0	
16.03	Relay Output Indicators		0	0	
16.04	Analogue Inputs		0	0	
16.05	Analogue Inputs		0	0	
16.07	F7 Input / Output Indicator		0	0	
16.08	F8 Input / Output Indicator		0	0	
16.09	F9 Input / Output Indicator		0	0	

Menu 20 Application Parameter Access

For similar reasons mentioned above it may be necessary to pre-configure the MENU 20 parameters for a UD70 application program. UniSoft readily doesn't allow the LOM parameters to appear unless it is connected on-line with a Unidrive that has a LOM in it. Attempting to bring up Menu 20 will yield the message:

Menu

⚠ Menu 20 not available
Large Option module not fitted

OK

In a similar manner as outline above, Menu 20 parameters can be made visible to be viewed and manipulated.

1)   Go to **Menu 17** and **double-click** on parameter #17.01. Change the value of this parameter to **1**.

2)   You can now go to the pull down menu and select **MENU 20** and those parameters will now be visible and will be able to be manipulated.

Questions ??   Ask the Author:

Author: **Ray McGranor**   **e-mail :**   ray.mcgranor@emersondrivesolutions.com
                (716)-774-0093