

## SM-Keypad Plus Customized Displays

This Application Note is pertinent to the Unidrive SP, Commander GP20, Affinity and Commander SK Drive Families

### Background

The LCD Keypad- (SM-Keypad Plus ) can be customized to permit one to select a specific list of internal drive parameters of one's choosing. This can be a nice feature so as to display only a certain set of key Drive parameters.

To do this the keypad refers to this as "*Filtering*"- filtering out just certain parameters to be displayed. To accomplish this, one would go menu 41 which is indigenous to the keypad itself. At #41.01 you would begin listing the parameters you wish to be in this list.

To activate this list you would set #40.06 to **FILTER**.



Below is a list of suggested generic parameters to Filter for Display. These items were selected as some of the most common things someone may want to observe either for general information or basic troubleshooting.

### Please click on drive family of interest



**Unidrive SP, Commander GP20  
and Affinity**



**Commander SK**

# For Commander GP20, UniSP, Affinity

## Suitable for Open Loop Applications

Set	#41.01= 5.04	Motor Speed ( rpm)
	#41.02= 5.02	Motor Voltage
	#41.03= 4.20	% Load
	#41.04= 5.01	Drive Output Frequency ( Hz)
	#41.05= 4.01	Drive Output Current ( A )
	#41.06= 5.03	Output Power ( kW )
	#41.07= 7.04	Drive Heat Sink Temp °C
	#41.08= 7.06	Circuitry Temp °C
	#41.09= 1.01	Reference Command Frequency (Hz)
	#41.10= 4.19	Motor Overload Indicator %
	#41.11= 5.05	DC Bus Voltage

Then set **#40.06 = FILTER**

If you would like to see a video on how to do this click the link below:



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## Suitable for Unidrive SP Vector Mode or Commander GP RFC Mode Applications

Set	#41.01= 3.02	Motor Speed ( rpm)
	#41.02= 5.02	Motor Voltage
	#41.03= 4.20	% Load
	#41.04= 5.05	DC Bus Voltage
	#41.05= 4.01	Drive Output Current ( A )
	#41.06= 5.03	Output Power ( kW )
	#41.07= 7.04	Drive Heat Sink Temp °C
	#41.08= 7.06	Circuitry Temp °C
	#41.09= 1.01	Reference Command Frequency (rpm)
	#41.10= 4.19	Motor Overload Indicator %

## For Commander SK

The LCD Keypad- (SM-Keypad Plus ) can be customized to permit one to select a specific list of internal drive parameters. This can be a nice feature so as to display only a certain set of key Drive parameters.

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To activate this list you would set #40.06 to **FILTER**.

Below is a list of suggested generic parameters to Filter for Display. These items were selected as some of the most common things someone may want to observe either for general information or basic troubleshooting.



Set	#41.01= 5.04	Motor Speed ( rpm)
	#41.02= 5.02	Motor Voltage
	#41.03= 4.20	% Load
	#41.04= 5.01	Drive Output Frequency ( Hz)
	#41.05= 4.01	Drive Output Current ( A )
	#41.06= 5.03	Output Power ( kW )
	#41.07= 7.04	Drive Heat Sink Temp °C
	#41.08= 7.05	Circuitry Temp °C
	#41.09= 1.01	Reference Command Frequency-Hz
	#41.10= 4.19	Motor Overload Indicator %
	#41.11= 5.05	DC Bus Voltage

Then set **#40.06 = FILTER**

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