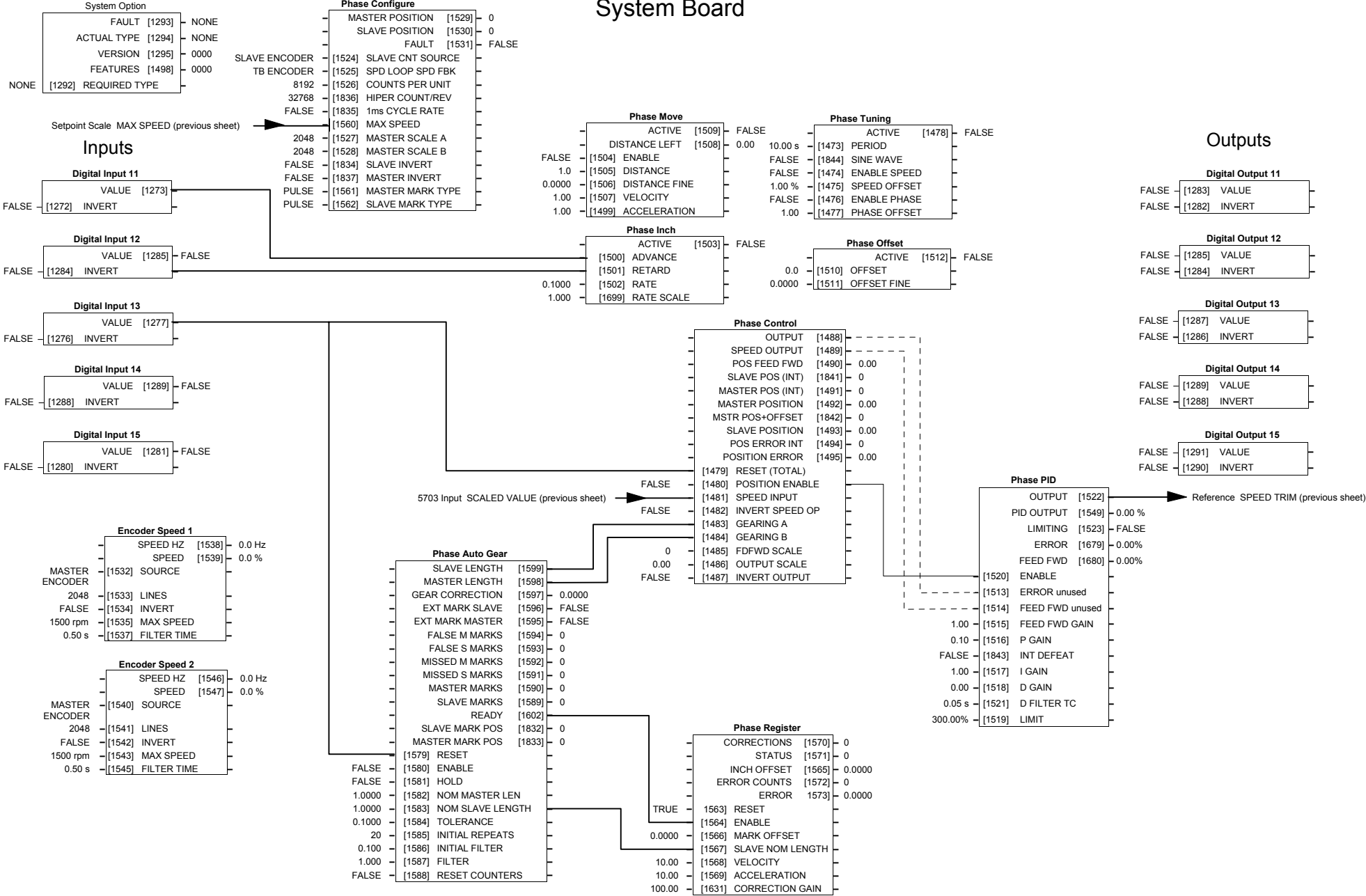


Note: Download from CeLite using the Operator Station Comms port (not the P3 port)

## Macro 7: Phase/Register

# System Board



## Macro 7: Phase/Register

### Macro 7: Phase/Register

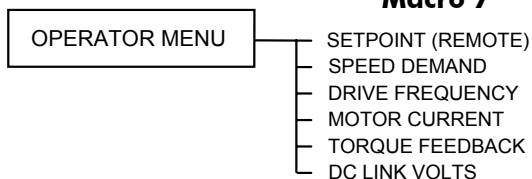
This macro is to be used in a slave drive set up for phase/register control. The slave will get the line speed setpoint from the master drive via the system port (serial port using the 5703 setpoint repeater). This provides the highest accuracy and least lag. If this is not possible, the speed demand should be derived from the master encoder using the Encoder Speed function block, or over the network.

**Note:** Register control is enabled by setting REGISTER::RESET = FALSE  
 If Auto-gearing is enabled, then it is important that  
 PHASE CONFIGURE::SCALE A = PHASE CONFIGURE::SCALE B

Control Wiring I/O			
Terminal	Name	Purpose	Comment
6	ANALOG OUTPUT 1	Ramp Output	absolute speed demand 0V = 0%, 10V = 100%
7	ANALOG OUTPUT 2	Speed Feedback	-10V = -100%, 10V = 100%
8	ANALOG OUTPUT 3	Torque Feedback	-10V = -100%, 10V = 100%
12	DIGITAL INPUT 1	Run Forward	24V = Run forward
13	DIGITAL INPUT 2	Run Reverse	24V = Run reverse
14	DIGITAL INPUT 3	Not Stop	24V = RUN FWD and RUN REV signals latched 0V = RUN FWD and RUN REV signals not latched
15	DIGITAL INPUT 4	Reverse	24V = Reverse
16	DIGITAL INPUT 5	Jog	24V = Jog
17	DIGITAL INPUT 6	Drive Enable	24V = Drive Enable
18	DIGITAL INPUT 7	Fast Stop	0V = Fast Stop
21, 22	DIGITAL OUTPUT 1	Health	0V = Tripped, i.e. not healthy
23, 24	DIGITAL OUTPUT 2	At Zero Speed	0V = At Zero Speed Feedback
25, 26	DIGITAL OUTPUT 3	Switched On	0V = Open, 24V = Switched On
System Board			
A2	DIGITAL INPUT 11	Inch Advance	
A3	DIGITAL INPUT 12	Inch Retard	
A4	DIGITAL INPUT 13	Reset	
5703	P3	Master Line Speed Demand	

### The Operator Menu for

The default Operator Menu is shown below.



### Macro 7

System Board Terminals (option)			
Terminal No.	Name	Range	Description
<b>Terminal A</b> 1 2 3 4 5 6			
1	External 0V		User-supplied 0V reference
2	DIGIO11		Configurable digital input/output
3	DIGIO12		Configurable digital input/output
4	DIGIO13		Configurable digital input/output
5	DIGIO14		Configurable digital input/output
6	DIGIO15		Configurable digital input/output
<b>Terminal B</b> 1 2 3 4 5 6 7 8 9			
1	External 24V In	24V dc (±10%) 1A	User-supplied power supply
2	Reference Encoder A		Input
3	Reference Encoder /A		Input
4	Reference Encoder B		Input
5	Reference Encoder /B		Input
6	Reference Encoder Z		Input
7	Reference Encoder /Z		Input
8	Encoder Supply Out	5V, 12V, 18V, 24V	User selectable (max load 500mA)
9	External 0V		User-supplied 0V reference
<b>Terminal C</b> 1 2 3 4 5 6			
1	Slave Encoder A		Input
2	Slave Encoder /A		Input
3	Slave Encoder B		Input
4	Slave Encoder /B		Input
5	Slave Encoder Z		Input
6	Slave Encoder /Z		Input
<b>Terminal D</b> 1 2 3 4 5 6			
1	Repeat Encoder Output A		Output
2	Repeat Encoder Output /A		Output
3	Repeat Encoder Output B		Output
4	Repeat Encoder Output /B		Output
5	Repeat Encoder Output Z		Output
6	Repeat Encoder Output /Z		Output