



<b>DOCUMENT TITLE:</b> FFC Serial API	
<b>AUTHOR:</b> Joe Lupfer	<b>RELEASE DATE:</b> 01/13/2021
<b>DOCUMENT NUMBER:</b> VP-COMB-016	<b>REVISION:</b> 01

# FFC Command List

*Note: All commands are case insensitive.*

<b>#Version</b>	Returns firmware version of master board where arguments are used as follows: No Argument = System Controller firmware version is returned 1 = Oscillator board firmware version is returned 2 = Amplifier board firmware version is returned 3 = Cavity board firmware version is returned
<i>Parameters:</i> None or Slot Number (1 - 3)	<i>Example:</i> #Version 1.62 #Version 1 255.255 255.255 0.16 65535 (0.16 is version)
<b>#SAVESETTINGS</b>	Saves the device's current settings into EEPROM. Unsaved changes will be lost when the board is powered off. Returns SUCCESS or FAIL.
<i>Parameters:</i> None	<i>Example:</i> #Savesettings #SAVESETTINGS
<b>#Scbkl t?</b>	Returns the touch screen backlight setting
<i>Parameters:</i> None	<i>Example:</i> #SCBKLT? #SCBKLT? 5
<b>#Scbkl t</b>	Sets the touch screen backlight setting to the level given as an argument
<i>Parameters:</i> [INT] level (0 - 20)	<i>Example:</i> #SCBKLT 3 #SCBKLT 3
<b>#Scvol?</b>	Returns the touch screen and rotary knob audio feedback volume
<i>Parameters:</i> None	<i>Example:</i> #SCVOL? #SCVOL? 5
<b>#Scvol</b>	Sets the touch screen and rotary knob audio feedback volume
<i>Parameters:</i> [INT] level (0 - 20)	<i>Example:</i> #SCVOL 8 #SCVOL 8
<b>*IDN?</b>	Returns the Manufacturer, Model, Serial Number, Board Firmware Versions of the device
<i>Parameters:</i> None	<i>Example:</i> *Idn? Vescent Photonics,FFC,[serial#],S-[version],FL-[version],LD-[version],LD-[version]



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<b>*RST</b>	Restarts the device (power cycle)
<i>Parameters:</i> None	<i>Example:</i> *Rst Resetting System

## FFC Control API

<b>MSTRCTL?</b>	Returns the enumerated operating mode of the FFC Where: 0 = OFF 1 = STANDBY 2 = LASER ON
<i>Parameters:</i> None	<i>Example:</i> MSTRCTL? MSTRCTL? 0
<b>MSTRCTL</b>	Returns the enumerated operating mode of the FFC Where: 0 = OFF 1 = STANDBY 2 = LASER ON Returns MSTRCTL? Note: The transition to Lasers On can only be made from Standby after temperatures are stabilized.
<i>Parameters:</i> [Int] MODE	<i>Example:</i> MSTRCTL 1 MSTRCTL 1
<b>CATCTRL?</b>	Returns the operating status of the Cavity Temperature Control Where: 0 = Manual Mode OFF (Not Recommended for Normal Use) 1 = Temperature Control Mode OFF 2 = Manual Mode ON (Not Recommended for Normal Use) 3 = Temperature Control Mode ON
<i>Parameters:</i> None	<i>Example:</i> Catctrl? CATCTRL? 1



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<b>CATCTRL</b>	<p>Sets the operating status of the Cavity Temperature Control</p> <p>Where:</p> <p>0 = Manual Mode OFF (Not Recommended for Normal Use)</p> <p>1 = Temperature Control Mode OFF</p> <p>2 = Manual Mode ON (Not Recommended for Normal Use)</p> <p>3 = Temperature Control Mode ON</p> <p>Returns CATCTRL?</p>
<p><i>Parameters:</i></p> <p>[Int] State</p>	<p><i>Example:</i></p> <pre>Catctrl 1 CATCTRL 1</pre>
<b>OSTCTRL?</b>	<p>Returns the operating status of the Oscillator Temperature Control</p> <p>Where:</p> <p>0 = Manual Mode OFF (Not Recommended for Normal Use)</p> <p>1 = Temperature Control Mode OFF</p> <p>2 = Manual Mode ON (Not Recommended for Normal Use)</p> <p>3 = Temperature Control Mode ON</p>
<p><i>Parameters:</i></p> <p>None</p>	<p><i>Example:</i></p> <pre>Ostctrl? OSTCTRL? 0</pre>
<b>OSTCTRL</b>	<p>Sets the operating status of the Oscillator Temperature Control</p> <p>Where:</p> <p>0 = Manual Mode OFF (Not Recommended for Normal Use)</p> <p>1 = Temperature Control Mode OFF</p> <p>2 = Manual Mode ON (Not Recommended for Normal Use)</p> <p>3 = Temperature Control Mode ON</p> <p>Returns OSTCTRL?</p> <p>Note: Disabling Oscillator Temperature Control will also disable Oscillator Laser Current.</p>
<p><i>Parameters:</i></p> <p>[Int] State</p>	<p><i>Example:</i></p> <pre>Ostctrl 3 OSTCTRL 3</pre>
<b>AMTCTRL?</b>	<p>Returns the operating status of the Amplifier Temperature Control</p> <p>Where:</p> <p>0 = Manual Mode OFF (Not Recommended for Normal Use)</p> <p>1 = Temperature Control Mode OFF</p> <p>2 = Manual Mode ON (Not Recommended for Normal Use)</p> <p>3 = Temperature Control Mode ON</p>
<p><i>Parameters:</i></p> <p>None</p>	<p><i>Example:</i></p> <pre>Amtctrl? AMTCTRL? 0</pre>



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<b>AMTCTRL</b>	<p>Sets the operating status of the Amplifier Temperature Control Where: 0 = Manual Mode OFF (Not Recommended for Normal Use) 1 = Temperature Control Mode OFF 2 = Manual Mode ON (Not Recommended for Normal Use) 3 = Temperature Control Mode ON Returns AMTCTRL? Note: Disabling Amplifier Temperature Control will also disable Amplifier Laser Current.</p>
<p><i>Parameters:</i> [Int] State</p>	<p><i>Example:</i> Amtctrl 1 AMTCTRL 1</p>
<b>INTERLK?</b>	<p>Reads the status of the Interlock system Where: Closed = Interlock Circuit Closed. Lasers Available Open = Interlock Circuit Open. Lasers Disabled</p>
<p><i>Parameters:</i> None</p>	<p><i>Example:</i> Interlk? INTERLK? Closed</p>

## FFC Temperature Controllers API

<b>CATSETP?</b>	<p>Returns the temperature setpoint for the Cavity Temperature Control</p>
<p><i>Parameters:</i> None</p>	<p><i>Example:</i> Catsetp? CATSETP? 20.3</p>
<b>CATSETP</b>	<p>Sets the temperature setpoint for the Cavity Temperature Control Returns CATSETP?</p>
<p><i>Parameters:</i> [Float] Temperature</p>	<p><i>Example:</i> Catsetp 24.5 CATSETP 24.5</p>
<b>OSTSETP?</b>	<p>Returns the temperature setpoint for the Oscillator Temperature Control</p>
<p><i>Parameters:</i> None</p>	<p><i>Example:</i> Ostsetp? OSTSETP? 20.3</p>



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<b>OSTSETP</b>	Sets the temperature setpoint for the Oscillator Temperature Control Returns OSTSETP? <i>Example:</i> Ostsetp 24.5 OSTSETP 24.5
<b>AMTSETP?</b>	Returns the temperature setpoint for the Amplifier Temperature Control <i>Parameters:</i> None <i>Example:</i> Amtsetp? AMTSETP? 20.3
<b>AMTSETP</b>	Sets the temperature setpoint for the Amplifier Temperature Control Returns AMTSETP? <i>Parameters:</i> [Float] Temperature <i>Example:</i> Amtsetp 24.5 AMTSETP 24.5
<b>CAVTEMP?</b>	Reads the measured Cavity Temperature [C] <i>Parameters:</i> None <i>Example:</i> Cavtemp? CAVTEMP? 23.335036
<b>OSCTEMP?</b>	Reads the measured Oscillator Temperature [C] <i>Parameters:</i> None <i>Example:</i> Osctemp? OSCTEMP? 23.335036
<b>AMPTEMP?</b>	Reads the measured Amplifier Temperature [C] <i>Parameters:</i> None <i>Example:</i> Amptemp? AMPTEMP? 23.335036
<b>CAVTERR?</b>	Reads the measured Cavity Temperature Error [mK] <i>Parameters:</i> None <i>Example:</i> Cavterr? CAVTERR? 935.865417
<b>OSCTERR?</b>	Reads the measured Oscillator Temperature Error [mK] <i>Parameters:</i> None <i>Example:</i> Oscterr? OSCTERR? 935.865417
<b>AMPERR?</b>	Reads the measured Amplifier Temperature Error [mK] <i>Parameters:</i> None <i>Example:</i> Ampterr? AMPERR? 935.865417



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<b>OSCTECI?</b>	Reads the measured Oscillator Temperature Control Current [A]
<i>Parameters:</i> None	<i>Example:</i> Osczeci? OSCTECI? 45.621548
<b>AMPTECI?</b>	Reads the measured Amplifier Temperature Control Current [A]
<i>Parameters:</i> None	<i>Example:</i> Ampteci? AMPTECI? 35.865417
<b>CAVBETA?</b>	Reads the Thermistor Beta Coefficient for Cavity Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Cavbeta? CAVBETA? 3450.000000
<b>CAVBETA</b>	Sets the Thermistor Beta Coefficient for Cavity Temperature Control Returns CAVBETA?
<i>Parameters:</i> [Float] Coefficient	<i>Example:</i> Cavbeta 3500 CAVBETA 3500
<b>OSCBETA?</b>	Reads the Thermistor Beta Coefficient for Oscillator Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Oscbeta? OSCBETA? 3450.000000
<b>OSCBETA</b>	Sets the Thermistor Beta Coefficient for Oscillator Temperature Control Returns OSCBETA?
<i>Parameters:</i> [Float] Coefficient	<i>Example:</i> Oscbeta 3500 OSCBETA 3500
<b>AMPBETA?</b>	Reads the Thermistor Beta Coefficient for Amplifier Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Ampbeta? AMPBETA? 3450.000000
<b>AMPBETA</b>	Sets the Thermistor Beta Coefficient for Amplifier Temperature Control Returns AMPBETA?
<i>Parameters:</i> [Float] Coefficient	<i>Example:</i> Ampbeta 3500 AMPBETA 3500



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<b>CAVREFT?</b>	Reads the Thermistor Reference Temperature for Cavity Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Cavreft? CAVREFT? 25.000000
<b>CAVREFT</b>	Sets the Thermistor Reference Temperature for Cavity Temperature Control Returns CAVREFT?
<i>Parameters:</i> [Float] Temperature	<i>Example:</i> Cavreft 20 CAVREFT 20
<b>OSCREFT?</b>	Reads the Thermistor Reference Temperature for Oscillator Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Oscreft? OSCREFT? 25.000000
<b>OSCREFT</b>	Sets the Thermistor Reference Temperature for Oscillator Temperature Control Returns OSCREFT?
<i>Parameters:</i> [Float] Temperature	<i>Example:</i> Oscreft 20 OSCREFT 20
<b>AMPREFT?</b>	Reads the Thermistor Reference Temperature for Amplifier Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Ampreft? AMPREFT? 25.000000
<b>AMPREFT</b>	Sets the Thermistor Reference Temperature for Amplifier Temperature Control Returns AMPREFT?
<i>Parameters:</i> [Float] Temperature	<i>Example:</i> Ampreft 20 AMPREFT 20
<b>CAVREFR?</b>	Reads the Thermistor Reference Resistor for Cavity Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Cavrefr? CAVREFR? 10000.000000



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<b>CAVREFR</b>	Sets the Thermistor Reference Resistor for Cavity Temperature Control Returns CAVREFR?
<i>Parameters:</i> [Float] Resistance	<i>Example:</i> Cavrefr 30000 CAVREFR 30000
<b>OSCREFR?</b>	Reads the Thermistor Reference Resistor for Oscillator Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Oscrefr? OSCREFR? 10000.000000
<b>OSCREFR</b>	Sets the Thermistor Reference Resistor for Oscillator Temperature Control Returns OSCREFR?
<i>Parameters:</i> [Float] Resistance	<i>Example:</i> Oscrefr 30000 OSCREFR 30000
<b>AMPREFR?</b>	Reads the Thermistor Reference Resistor for Amplifier Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Amprefr? AMPREFR? 10000.000000
<b>AMPREFR</b>	Sets the Thermistor Reference Resistor for Amplifier Temperature Control Returns AMPREFR?
<i>Parameters:</i> [Float] Resistance	<i>Example:</i> Amprefr 30000 AMPREFR 30000
<b>CAVCOFA?</b>	Reads the Steinhart-Hart A Thermistor coefficient for Cavity Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Cavcofa? CAVCOFA? 0.000722
<b>CAVCOFA</b>	Sets the Steinhart-Hart A Thermistor coefficient for Cavity Temperature Control Returns CAVCOFA?
<i>Parameters:</i> [Float] Coefficient A	<i>Example:</i> Cavcofa 0.000722 CAVCOFA 0.000722





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<b>CAVCOFB?</b>	Reads the Steinhart-Hart B Thermistor coefficient for Cavity Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Cavcofb? CAVCOFB? 0.000286
<b>CAVCOFB</b>	Sets the Steinhart-Hart B Thermistor coefficient for Cavity Temperature Control Returns CAVCOFB?
<i>Parameters:</i> [Float] Coefficient B	<i>Example:</i> Cavcofb 0.000286 CAVCOFB 0.000286
<b>CAVCOFC?</b>	Reads the Steinhart-Hart C Thermistor coefficient for Cavity Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Cavcofc? CAVCOFC? 0.000000
<b>CAVCOFC</b>	Sets the Steinhart-Hart C Thermistor coefficient for Cavity Temperature Control Returns CAVCOFC?
<i>Parameters:</i> [Float] Coefficient C	<i>Example:</i> Cavcofc 0.000001 CAVCOFC 0.000001
<b>OSCCOFA?</b>	Reads the Steinhart-Hart A Thermistor coefficient for Oscillator Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Osccofa? OSCCOFA? 0.000684
<b>OSCCOFA</b>	Sets the Steinhart-Hart A Thermistor coefficient for Oscillator Temperature Control Returns OSCCOFA?
<i>Parameters:</i> [Float] Coefficient A	<i>Example:</i> Osccofa 0.000684 OSCCOFA 0.000684
<b>OSCCOFB?</b>	Reads the Steinhart-Hart B Thermistor coefficient for Oscillator Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Osccofb? OSCCOFB? 0.000286



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<b>OSCCOFB</b>	Sets the Steinhart-Hart B Thermistor coefficient for Oscillator Temperature Control Returns OSCCOFB?
<i>Parameters:</i> [Float] Coefficient B	<i>Example:</i> Osccofb 0.000286 OSCCOFB 0.000286
<b>OSCCOFC?</b>	Reads the Steinhart-Hart C Thermistor coefficient for Oscillator Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Osccofc? OSCCOFC? 0.000000
<b>OSCCOFC</b>	Sets the Steinhart-Hart C Thermistor coefficient for Oscillator Temperature Control Returns OSCCOFC?
<i>Parameters:</i> [Float] Coefficient C	<i>Example:</i> Osccofc 0.000001 OSCCOFC 0.000001
<b>AMPCOFA?</b>	Reads the Steinhart-Hart A Thermistor coefficient for Amplifier Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Ampcofa? AMPCOFA? 0.000684
<b>AMPCOFA</b>	Sets the Steinhart-Hart A Thermistor coefficient for Amplifier Temperature Control Returns AMPCOFA?
<i>Parameters:</i> [Float] Coefficient A	<i>Example:</i> Ampcofa 0.000684 AMPCOFA 0.000684
<b>AMPCOFB?</b>	Reads the Steinhart-Hart B Thermistor coefficient for Amplifier Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Ampcofb? AMPCOFB? 0.000286
<b>AMPCOFB</b>	Sets the Steinhart-Hart B Thermistor coefficient for Amplifier Temperature Control Returns AMPCOFB?
<i>Parameters:</i> [Float] Coefficient B	<i>Example:</i> Ampcofb 0.000286 AMPCOFB 0.000286



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<b>AMPCOFC?</b>	Reads the Steinhart-Hart C Thermistor coefficient for Amplifier Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Osccofc? AMPCOFC? 0.000001
<b>AMPCOFC</b>	Sets the Steinhart-Hart C Thermistor coefficient for Amplifier Temperature Control Returns AMPCOFC?
<i>Parameters:</i> [Float] Coefficient C	<i>Example:</i> Ampcofc 0.000001 AMPCOFC 0.000001
<b>CAVPROP?</b>	Reads the Proportional gain for Cavity Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Cavprop? CAVPROP? 7.500000
<b>CAVPROP</b>	Sets the Proportional gain for Cavity Temperature Control Returns CAVPROP?
<i>Parameters:</i> [Float] Proportional Gain	<i>Example:</i> Cavprop 7.500000 CAVPROP 7.500000
<b>CAVINT?</b>	Reads the Integral gain for Cavity Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Cavint? CAVINT? 2.000000
<b>CAVINT</b>	Sets the Integral gain for Cavity Temperature Control Returns CAVINT?
<i>Parameters:</i> [Float] Integral Gain	<i>Example:</i> Cavint 2.0 CAVINT 2.0
<b>CAVDERV?</b>	Reads the Derivative term for Cavity Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Cavderv? CAVDERV? 0.500000
<b>CAVDERV</b>	Sets the Derivative term for Cavity Temperature Control Returns CAVDERV?
<i>Parameters:</i> [Float] Derivative	<i>Example:</i> Cavderv 0.5 CAVDERV 0.5



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<b>OSCPROP?</b>	Reads the Proportional gain for Oscillator Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Oscprop? OSCPROP? 7.500000
<b>OSCPROP</b>	Sets the Proportional gain for Oscillator Temperature Control Returns OSCPROP?
<i>Parameters:</i> [Float] Proportional Gain	<i>Example:</i> Cavprop 7.500000 OSCPROP 7.500000
<b>OSCINT?</b>	Reads the Integral gain for Oscillator Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Oscint? OSCINT? 2.000000
<b>OSCINT</b>	Sets the Integral gain for Oscillator Temperature Control Returns OSCINT?
<i>Parameters:</i> [Float] Integral Gain	<i>Example:</i> Oscint 2.0 OSCINT 2.0
<b>OSCDERV?</b>	Reads the Derivative term for Oscillator Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Oscderv? OSCDERV? 0.500000
<b>OSCDERV</b>	Sets the Derivative term for Oscillator Temperature Control Returns OSCDERV?
<i>Parameters:</i> [Float] Derivative	<i>Example:</i> Oscderv 0.5 OSCDERV 0.5
<b>AMPPROP?</b>	Reads the Proportional gain for Amplifier Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Ampprop? AMPPROP? 7.500000



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<b>AMPPROP</b>	Sets the Proportional gain for Amplifier Temperature Control Returns AMPPROP?
<i>Parameters:</i> [Float] Proportional Gain	<i>Example:</i> Ampprop 7.500000 AMPPROP 7.500000
<b>AMPINT?</b>	Reads the Integral gain for Amplifier Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Ampint? AMPINT? 2.000000
<b>AMPINT</b>	Sets the Integral gain for Amplifier Temperature Control Returns AMPINT?
<i>Parameters:</i> [Float] Integral Gain	<i>Example:</i> Ampint 2.0 AMPINT 2.0
<b>AMPDERV?</b>	Reads the Derivative term for Amplifier Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Ampderv? AMPDERV? 0.500000
<b>AMPDERV</b>	Sets the Derivative term for Amplifier Temperature Control Returns AMPDERV?
<i>Parameters:</i> [Float] Derivative	<i>Example:</i> Ampderv 0.5 AMPDERV 0.5
<b>CAPROEN?</b>	Reads the enabled status of Proportional Gain for Cavity Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Caproen? CAPROEN? ON
<b>CAPROEN</b>	Sets the enabled status of Proportional Gain for Cavity Temperature Control Returns CAPROEN?
<i>Parameters:</i> [Int] 0 = OFF 1 = ON	<i>Example:</i> Caproen 0 CAPROEN OFF



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<b>OSPROEN?</b>	Reads the enabled status of Proportional Gain for Oscillator Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Ospoen? OSPROEN? ON
<b>OSPROEN</b>	Sets the enabled status of Proportional Gain for Oscillator Temperature Control Returns OSPROEN?
<i>Parameters:</i> [Int] 0 = OFF 1 = ON	<i>Example:</i> Ospoen 0 OSPROEN OFF
<b>AMPROEN?</b>	Reads the enabled status of Proportional Gain for Amplifier Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Amproen? AMPROEN? ON
<b>AMPROEN</b>	Sets the enabled status of Proportional Gain for Amplifier Temperature Control Returns AMPROEN?
<i>Parameters:</i> [Int] 0 = OFF 1 = ON	<i>Example:</i> Amproen 0 AMPROEN OFF
<b>CAVSLEW?</b>	Reads the Slew Rate of the Cavity Temperature Control [°C/min]
<i>Parameters:</i> None	<i>Example:</i> Cavslew? CAVSLEW? 2.000000
<b>CAVSLEW</b>	Sets the Slew Rate of the Cavity Temperature Control [°C/min] Returns: CAVSLEW?
<i>Parameters:</i> [Float] Slew Rate	<i>Example:</i> Cavslew 3.5 CAVSLEW 3.5
<b>OSCSLEW?</b>	Reads the Slew Rate of the Oscillator Temperature Control [°C/min]
<i>Parameters:</i> None	<i>Example:</i> Oscslew? OSCSLEW? 2.000000



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<b>OSCSLEW</b>	Sets the Slew Rate of the Oscillator Temperature Control [°C/min] Returns: OSCSLEW?
<i>Parameters:</i> [Float] Slew Rate	<i>Example:</i> Oscslew 3.5 OSCSLEW 3.5
<b>AMPSLEW?</b>	Reads the Slew Rate of the Amplifier Temperature Control [°C/min]
<i>Parameters:</i> None	<i>Example:</i> Ampslew? AMPSLEW? 2.000000
<b>AMPSLEW</b>	Sets the Slew Rate of the Amplifier Temperature Control [°C/min] Returns: AMPSLEW?
<i>Parameters:</i> [Float] Slew Rate	<i>Example:</i> Ampslew 3.5 AMPSLEW 3.5
<b>CASLWEN?</b>	Reads the Slew Rate Enabled state of the Cavity Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Caslwen? CASLWEN? OFF
<b>CASLWEN</b>	Sets the Slew Rate Enabled state of the Cavity Temperature Control Returns: CASLWEN?
<i>Parameters:</i> [Int] 0 = OFF 1 = ON	<i>Example:</i> Caslwen 1 CASLWEN ON
<b>OSSLWEN?</b>	Reads the Slew Rate Enabled state of the Oscillator Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Osslwen? OSSLWEN? OFF



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<b>OSSLWEN</b>	Sets the Slew Rate Enabled state of the Oscillator Temperature Control Returns: OSSLWEN?
<i>Parameters:</i> [Int] 0 = OFF 1 = ON	<i>Example:</i> Osslwen 1 OSSLWEN ON
<b>AMSLWEN?</b>	Reads the Slew Rate Enabled state of the Amplifier Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Amslwen? AMSLWEN? OFF
<b>AMSLWEN</b>	Sets the Slew Rate Enabled state of the Amplifier Temperature Control Returns: AMSLWEN?
<i>Parameters:</i> [Int] 0 = OFF 1 = ON	<i>Example:</i> Amslwen AMSLWEN ON
<b>CATILIM?</b>	Reads the Cavity Temperature Control Current Limit [A]
<i>Parameters:</i> None	<i>Example:</i> Catilim? CATILIM? 0.500000
<b>CATILIM</b>	Sets the Cavity Temperature Control Current Limit [A] Returns: CATILIM?
<i>Parameters:</i> [Float] Current Limit	<i>Example:</i> Catilim 0.6 CATILIM 0.6
<b>OSTILIM?</b>	Reads the Oscillator Temperature Control Current Limit [A]
<i>Parameters:</i> None	<i>Example:</i> Ostilim? OSTILIM? 0.600000





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<b>OSTILIM</b>	Sets the Oscillator Temperature Control Current Limit [A] Returns: OSTILIM?
<i>Parameters:</i> [Float] Current Limit	<i>Example:</i> Ostylim 0.5 OSTILIM 0.500000
<b>AMTILIM?</b>	Reads the Amplifier Temperature Control Current Limit [A]
<i>Parameters:</i> None	<i>Example:</i> Amtylim? AMTILIM? 0.600000
<b>AMTILIM</b>	Sets the Amplifier Temperature Control Current Limit [A] Returns: AMTILIM?
<i>Parameters:</i> [Float] Current Limit	<i>Example:</i> Amtylim 0.5 AMTILIM 0.5
<b>CATPLIM?</b>	Reads the Cavity Temperature Control Power Limit [W]
<i>Parameters:</i> None	<i>Example:</i> Catplim? CATPLIM? 7.500000
<b>CATPLIM</b>	Sets the Cavity Temperature Control Power Limit [W] Returns: CATPLIM?
<i>Parameters:</i> [Float] Power Limit	<i>Example:</i> Catplim 7 CATPLIM 7.000000
<b>OSTPLIM?</b>	Reads the Oscillator Temperature Control Power Limit [W]
<i>Parameters:</i> None	<i>Example:</i> Ostplim? OSTPLIM? 7.500000
<b>OSTPLIM</b>	Sets the Oscillator Temperature Control Power Limit [W] Returns: OSTPLIM?
<i>Parameters:</i> [Float] Power Limit	<i>Example:</i> Ostplim 7 OSTPLIM 7



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<b>AMTPLIM?</b>	Reads the Amplifier Temperature Control Power Limit [W]
<i>Parameters:</i> None	<i>Example:</i> Amtplim? AMTPLIM? 7.500000
<b>AMTPLIM</b>	Sets the Amplifier Temperature Control Power Limit [W] Returns: AMTPLIM?
<i>Parameters:</i> [Float] Power Limit	<i>Example:</i> Amtplim 6.5 AMTPLIM 6.5
<b>CATWARN?</b>	Reads the Temperature Error Warning Threshold of the Cavity Temperature Control [mK]
<i>Parameters:</i> None	<i>Example:</i> Catwarn? CATWARN? 5.000000
<b>CATWARN</b>	the Temperature Error Warning Threshold of the Cavity Temperature Control [mK] Returns: CATWARN?
<i>Parameters:</i> [Float] Warning Threshold	<i>Example:</i> Catwarn 1.0 CATWARN 1.0
<b>OSTWARN?</b>	Reads the Temperature Error Warning Threshold of the Oscillator Temperature Control [mK]
<i>Parameters:</i> None	<i>Example:</i> Ostwarn? OSTWARN? 5.000000
<b>OSTWARN</b>	the Temperature Error Warning Threshold of the Oscillator Temperature Control [mK] Returns: OSTWARN?
<i>Parameters:</i> [Float] Warning Threshold	<i>Example:</i> Ostwarn 1.0 OSTWARN 1.0



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<b>AMTWARN?</b>	Reads the Temperature Error Warning Threshold of the Amplifier Temperature Control [mK]
<i>Parameters:</i> None	<i>Example:</i> Amtwarn? AMTWARN? 5.000000
<b>AMTWARN</b>	the Temperature Error Warning Threshold of the Amplifier Temperature Control [mK] Returns: AMTWARN?
<i>Parameters:</i> [Float] Warning Threshold	<i>Example:</i> Amtwarn 1.0 AMTWARN 1.0
<b>CATMAX?</b>	Reads the Maximum Temperature Limit of the Cavity Temperature Control [C]
<i>Parameters:</i> None	<i>Example:</i> Catmax? CATMAX? 50.000000
<b>CATMAX</b>	Sets the Maximum Temperature Limit of the Cavity Temperature Control [C] Returns: CATMAX?
<i>Parameters:</i> [Float] Maximum Temperature	<i>Example:</i> Catmax 40.0 CATMAX 40.0
<b>OSTMAX?</b>	Reads the Maximum Temperature Limit of the Oscillator Temperature Control [C]
<i>Parameters:</i> None	<i>Example:</i> Ostmax? OSTMAX? 50.000000
<b>OSTMAX</b>	Sets the Maximum Temperature Limit of the Oscillator Temperature Control [C] Returns: OSTMAX?
<i>Parameters:</i> [Float] Maximum Temperature	<i>Example:</i> Ostmax 30.0 OSTMAX 30.0



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<b>AMTMAX?</b>	Reads the Maximum Temperature Limit of the Amplifier Temperature Control [C]
<i>Parameters:</i> None	<i>Example:</i> Amtmax? AMTMAX? 50.000000
<b>AMTMAX</b>	Sets the Maximum Temperature Limit of the Amplifier Temperature Control [C] Returns: AMTMAX?
<i>Parameters:</i> [Float] Maximum Temperature	<i>Example:</i> Amtmax 30.0 AMTMAX 30.0
<b>CATMIN?</b>	Reads the Minimum Temperature Limit of the Cavity Temperature Control [C]
<i>Parameters:</i> None	<i>Example:</i> Catmin? CATMIN? -5.000000
<b>CATMIN</b>	Sets the Minimum Temperature Limit of the Cavity Temperature Control [C] Returns: CATMIN?
<i>Parameters:</i> [Float] Minimum Temperature	<i>Example:</i> Catmin -4.0 CATMIN -4.0
<b>OSTMIN?</b>	Reads the Minimum Temperature Limit of the Oscillator Temperature Control [C]
<i>Parameters:</i> None	<i>Example:</i> Ostmin? OSTMIN? -5.000000
<b>OSTMIN</b>	Sets the Minimum Temperature Limit of the Oscillator Temperature Control [C] Returns: OSTMIN?
<i>Parameters:</i> [Float] Minimum Temperature	<i>Example:</i> Ostmin -4.0 OSTMIN -4.0



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<b>AMTMIN?</b>	Reads the Minimum Temperature Limit of the Amplifier Temperature Control [C]
<i>Parameters:</i> None	<i>Example:</i> Amtmin? AMTMIN? -5.000000
<b>AMTMIN</b>	Sets the Minimum Temperature Limit of the Oscillator Temperature Control [C] Returns: AMTMIN?
<i>Parameters:</i> [Float] Minimum Temperature	<i>Example:</i> Amtmin -4.0 AMTMIN -4.0
<b>CASDTIM?</b>	Reads the Number of Seconds Until Temperature Control Shuts Down When Temperature Exceeds a Maximum or Minimum for Cavity Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Casdtim? CASDTIM? 0.100000
<b>CASDTIM</b>	Sets the Number of Seconds Until Temperature Control Shuts Down When Temperature Exceeds a Maximum or Minimum for Cavity Temperature Control Returns: CASDTIM?
<i>Parameters:</i> [Float] Seconds	<i>Example:</i> Casdtim 5.0 CASDTIM 5.0
<b>OSSDTIM?</b>	Reads the Number of Seconds Until Temperature Control Shuts Down When Temperature Exceeds a Maximum or Minimum for Oscillator Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Ossdtim? OSSDTIM? 0.100000
<b>OSSDTIM</b>	Sets the Number of Seconds Until Temperature Control Shuts Down When Temperature Exceeds a Maximum or Minimum for Oscillator Temperature Control Returns: OSSDTIM?
<i>Parameters:</i> [Float] Seconds	<i>Example:</i> Ossdtim 5.0 OSSDTIM 5.0



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<b>AMSDTIM?</b>	Reads the Number of Seconds Until Temperature Control Shuts Down When Temperature Exceeds a Maximum or Minimum for Amplifier Temperature Control
<i>Parameters:</i> None	<i>Example:</i> Amsdtim? AMSDTIM? 0.100000
<b>AMSDTIM</b>	Sets the Number of Seconds Until Temperature Control Shuts Down When Temperature Exceeds a Maximum or Minimum for Amplifier Temperature Control Returns: AMSDTIM?
<i>Parameters:</i> [Float] Seconds	<i>Example:</i> Amsdtim 5.0 AMSDTIM 5.0

## FFC Laser Current Controllers API

<b>OSISETP?</b>	Reads the Current Setpoint for the Oscillator Laser [mA]
<i>Parameters:</i> None	<i>Example:</i> Osisetp? OSISETP? 997.939941
<b>OSISETP</b>	Sets the Current Setpoint for the Oscillator Laser [mA] Returns: OSISETP?
<i>Parameters:</i> [Float] Laser Current Setpoint	<i>Example:</i> Osisetp 850 OSISETP 850
<b>AMISETP?</b>	Reads the Current Setpoint for the Amplifier Laser [mA]
<i>Parameters:</i> None	<i>Example:</i> Amisetp? AMISETP? 1573.967896
<b>AMISETP</b>	Sets the Current Setpoint for the Amplifier Laser [mA] Returns: AMISETP?
<i>Parameters:</i> [Float] Laser Current Setpoint	<i>Example:</i> Amisetp 1400.0 AMISETP 1400.0



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<b>OSCCURR?</b>	Reads the Laser Current Output for the Oscillator [mA]
<i>Parameters:</i> None	<i>Example:</i> Osccurr? OSCCURR? 526.000000
<b>AMPCURR?</b>	Reads the Laser Current Output for the Amplifier [mA]
<i>Parameters:</i> None	<i>Example:</i> Ampcurr? AMPCURR? 1235.000000
<b>OSCILIM?</b>	Reads the Laser Current Limit for the Oscillator [mA]
<i>Parameters:</i> None	<i>Example:</i> Oscilim? OSCILIM? 1000.000000
<b>OSCILIM</b>	Sets the Laser Current Limit for Oscillator [mA] Returns: OSCILIM?
<i>Parameters:</i> [Float] Current Limit	<i>Example:</i> Oscilim 1000 OSCILIM 1000
<b>AMCILIM?</b>	Reads the Laser Current Limit for the Amplifier [mA]
<i>Parameters:</i> None	<i>Example:</i> Amcilim? AMCILIM? 1575.000000
<b>AMCILIM</b>	Sets the Laser Current Limit for Amplifier [mA] Returns: AMCILIM?
<i>Parameters:</i> [Float] Current Limit	<i>Example:</i> Amcilim 1575 AMCILIM 1575
<b>OSCPLIM?</b>	Reads the Laser Power Limit for the Oscillator [W]
<i>Parameters:</i> None	<i>Example:</i> Oscplim? OSCPLIM? 10.000000



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<b>OSCPLIM</b>	Sets the Laser Power Limit for Oscillator [W] Returns: OSCPLIM?
<i>Parameters:</i> [Float] Power Limit	<i>Example:</i> Oscplim 10 OSCPLIM 10
<b>AMCPLIM?</b>	Reads the Laser Power Limit for the Amplifier [W]
<i>Parameters:</i> None	<i>Example:</i> Amcplim? AMCPLIM? 10.000000
<b>AMCPLIM</b>	Sets the Laser Power Limit for Amplifier [W] Returns: AMCPLIM?
<i>Parameters:</i> [Float] Power Limit	<i>Example:</i> Amcplim 10 AMCPLIM 10
<b>_OSCTLIMMAX?</b>	Reads the Oscillator Laser Temperature Upper Limit [°C] (Laser is shut down if exceeded)
<i>Parameters:</i> None	<i>Example:</i> _Osctlimmax? _OSCTLIMMAX? 30.000000
<b>_OSCTLIMMAX</b>	Sets the Oscillator Laser Temperature Upper Limit [°C] (Laser is shut down if exceeded) Returns: _OSCTLIMMAX?
<i>Parameters:</i> [Float] Laser Temperature Upper Limit	<i>Example:</i> _Osctlimmax 33.5 _OSCTLIMMAX 33.5
<b>_AMPTLIMMAX?</b>	Reads the Amplifier Laser Temperature Upper Limit [°C] (Laser is shut down if exceeded)
<i>Parameters:</i> None	<i>Example:</i> _Amptlimmax? _AMPTLIMMAX? 30.000000





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<b><u>_AMPTLIMMAX</u></b>	Sets the Amplifier Laser Temperature Upper Limit [°C] (Laser is shut down if exceeded) Returns: <u>_AMPTLIMMAX?</u>
<i>Parameters:</i> [Float] Laser Temperature Upper Limit	<i>Example:</i> <u>_Amptlimmax</u> 33.5 <u>_AMPTLIMMAX</u> 33.5
<b><u>_OSCTLIMMIN?</u></b>	Reads the Oscillator Laser Temperature Lower Limit [°C] (Laser is shut down if exceeded)
<i>Parameters:</i> None	<i>Example:</i> <u>_Osctlimmin?</u> <u>_OSCTLIMMIN?</u> 10.000000
<b><u>_OSCTLIMMIN</u></b>	Sets the Oscillator Laser Temperature Lower Limit [°C] (Laser is shut down if exceeded) Returns: <u>_OSCTLIMMIN?</u>
<i>Parameters:</i> [Float] Laser Temperature Lower Limit	<i>Example:</i> <u>_Osctlimmin</u> 5.5 <u>_OSCTLIMMIN</u> 5.5
<b><u>_AMPTLIMMIN?</u></b>	Reads the Amplifier Laser Temperature Lower Limit [°C] (Laser is shut down if exceeded)
<i>Parameters:</i> None	<i>Example:</i> <u>_Amptlimmin?</u> <u>_AMPTLIMMIN?</u> 10.000000
<b><u>_AMPTLIMMIN</u></b>	Sets the Amplifier Laser Temperature Lower Limit [°C] (Laser is shut down if exceeded) Returns: <u>_AMPTLIMMIN?</u>
<i>Parameters:</i> [Float] Laser Temperature Lower Limit	<i>Example:</i> <u>_Amptlimmin</u> 5.5 <u>_AMPTLIMMIN</u> 5.5



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## FFC Laser PZT Controllers API

<b>CADCBSP?</b>	Reads the DC Bias Setpoint for the Cavity [V]
<i>Parameters:</i> None	<i>Example:</i> Cadcbsp? CADCBSP? 60.000000
<b>CADCBSP</b>	Sets the DC Bias Setpoint for the Cavity [V] Returns: CADCBSP?
<i>Parameters:</i> [Float] Voltage	<i>Example:</i> Cadcbsp 60 CADCBSP 60
<b>CADCBV?</b>	Reads the PZT Voltage Output for the Cavity [V]
<i>Parameters:</i> None	<i>Example:</i> Cadc bv? CADCBV? 59.985703
<b>VLIM?</b>	Reads the DC Bias Setpoint Limit for the Cavity [V]
<i>Parameters:</i> None	<i>Example:</i> Vlim? VLIM? 80.000000
<b>VLIM</b>	Sets the DC Bias Setpoint Limit for the Cavity [V] Returns: VLIM?
<i>Parameters:</i> [Float] Voltage	<i>Example:</i> Vlim 90 VLIM 90



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## FFC Mode Lock API

<b>MLDCTHR?</b>	Reads the Mode Lock DC Threshold Parameter [mV]
<i>Parameters:</i> None	<i>Example:</i> Mldcthr? MLDCTRH? 8000.000000 [mV]
<b>MLDCTHR</b>	Sets the Mode Lock DC Threshold Parameter [mV] Returns: MLDCTHR?
<i>Parameters:</i> [Float] Voltage	<i>Example:</i> Mldcthr 6000 MLDCTRH 6000 [mV]
<b>MLRMTHR?</b>	Reads the Mode Lock RMS Threshold Parameter [mV]
<i>Parameters:</i> None	<i>Example:</i> Mlrmthr? MLRMTHR? 100.000000 [mV]
<b>MLRMTHR</b>	Sets the Mode Lock RMS Threshold Parameter [mV] Returns: MLRMTHR?
<i>Parameters:</i> [Float] Voltage	<i>Example:</i> Mlrmthr 110 MLRMTHR 110 [mV]
<b>MLSMPLM?</b>	Reads the Mode Lock Sample Limit
<i>Parameters:</i> None	<i>Example:</i> Mlsmplm? MLSMPLM? 200
<b>MLSMPLM</b>	Sets the Mode Lock Sample Limit Returns: MLSMPLM?
<i>Parameters:</i> [Int] Limit	<i>Example:</i> Mlsmplm 250 MLSMPLM 250
<b>MODELOK?</b>	Reads the Mode Lock Status [Off/On]
<i>Parameters:</i> None	<i>Example:</i> Modelok? MODELOK? OFF
<b>#MLSTATS</b>	Enables / Disables Touch Screen Display of Mode Lock Mean and Standard Deviation Returns: ON or OFF in response to argument
<i>Parameters:</i> [Int] State	<i>Example:</i> #Mlstats 1 #MLSTATS ON