## **Wireless Pendants**

Wireless pendants are currently sold in three configurations in the myCNC Shop.

## Setting up the wireless pendant

Upon opening Settings > Config > Panel/Pendant > Wireless Pendant/XHC, the user is presented with the following screen:

Info Support Camera Config																			SAVE CFG
CNC Settings	00	01	02	03	04	05	06	07	08	09	10	11	12	13	140	15			
Connections	-			_			_			_			_		_				
Network	16	17	18	19	20	21 😡	22	23	24	25	26	27 🌑	28	29	30	31 😡			
Motion	32	33	34	35	36	37 🔾	38	39	40	41 🔘	42	43 🍚	44	45	46	47 😡			
▶ PLC	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63			
G-codes settings	-	-	-	-				-	-	-	-	-	-	-		-	_		
DXF import settings					DSP sty	/le pend	ant							Di	sabled		<u> </u>		
Macro List	LibUSB	devices	list	lib	USB De	ebug Inf	ormati	on											
Macro Wizard												load	defaul	t for V	VHB02	L L			
Probing Wizard																_			
Preferences	libUSB	device	count: 8	-								load o	lefault	for P	HB02B	5			
Screen	10CE:E	891										load o	lefault	for P	HB03S	5			
Work Offsets	1A81:1	006										load d	ofault	for W	HB04I	n i			
Parking Coordinates	0E8F:0																		
<ul> <li>Technology</li> <li>Plasma Cutting</li> </ul>	8087:8	001		<u> </u>								load o	lefault	for P	HB04B	5			
Gas/Oxyfuel												load d	efault	for W	HB049	5			
Cutcharts		Links			-1-+		_												
тнс	1 🔶		leset cur	<u> </u>	ointer		<u> </u>									~			
Mill/Lathe	2 ф		top runr	ning			•									×			
Multi Head	3 🔶	Job: S	tart run	ning			-									×			
Laser control	4 🔶	Feed	Override	e: inc			-									×			
Tangential Knife	5		Override	v doc			-												
Special Purpose							<u> </u>												
Camera	6 ф	_	lle Speed				<u> </u>									×			
5 axes RTCP	7 🚖	Spind	lle Speed	l: dec			*									×			
<ul> <li>Panel/Pendant</li> </ul>	8 🔶	File: 0	Open fro	m Pen	dant		-									×			
Wireless Pendant/XHC	9 🔶	Pend	ant: Wor	k Cool	rdinate	Reset	-									×			
Operator Panel							_												
Gamepad		-	tun G-co				- M3	802								<u>~</u>			
Hotkeys	11 ф	Toggl	e Spindle	e On/C	Off		*									×			
Hardkeys Hardware	12 🔶	Job: R	lun G-co	de			▼ G9	0G0Z[#	7020]							×			
<ul> <li>Hardware</li> <li>Advanced</li> </ul>			-	•			_												

• The indicators at the top of the page serve to visually point out the pendant button which is being pressed. There indicators will light up green when the corresponding button is pressed:

Info Support Camera Config																			SAVE CFG
CNC Settings	00	01	02	03	04	05	06	07	08	09	10	110	12	13	14	15			-
Connections	169	170	18	19	20	21	_	23	24	25		27	_	29	30	31			
Network	-						22				26		28						
Motion	32	33	34	35	36	37 🍚	38	39	40	41 😡	42	43	44	45	46	47 🍚			
▶ PLC	48	49	50 🝚	51 🔘	52	53	54	55 🔵	56	57	58	59	60	61	62	63			
G-codes settings					DCD cb	yle peno	lant							Di	sabled		-		
DXF import settings														Di	Sabieu		<u> </u>		
Macro List	LibUSB	devices	list	lik	OUSB D	ebug Ini	ormati	on											
Macro Wizard												load o	defaul	t for V	VHB02	1			
Probing Wizard												landa	المقميناة	for D	НВ02В	1			
Preferences     Screen			count:	8 -															
Work Offsets	10CE:EI											load c	lefault	for P	HB03S	J			
Parking Coordinates	1A81:1											load d	efault	for W	HB04L	1			
▼ Technology	0E8F:00			_								La sel si		fer D	HB04B	,			
<ul> <li>Plasma Cutting</li> </ul>	8087:80	001		L															
Gas/Oxyfuel												load d	efault	for W	HB045	3			
Cutcharts	1 🔶	lob: R	leset cu	rrent	oointer		+									×			
тнс	2						-												
▶ Mill/Lathe		_	top run	-			<u> </u>									<u>.</u>			
Multi Head	3 🌩	Job: S	tart ru	nning			*								1	×			
Laser control	4 🔶	Feed	Overrid	le: inc			*									×			
Tangential Knife	5 🔶	Feed	Overrid	le: dec			*								1	×			
Special Purpose	6 🗘		lle Spee	d: inc			-												
Camera		_					<u> </u>												
5 axes RTCP	7 🔶	_	lle Spee				<u> </u>									×			
Panel/Pendant     Wireless Pendant/XHC	8 🛖	File: C	Open fro	om Per	ndant		<b>*</b>									×			
Operator Panel	9 🔶	Pend	ant: Wo	rk Coo	rdinate	e Reset	*									×			
Gamepad	10 🌲	lob: R	lun G-co	ode			- M3	302								×			
Hotkeys	11 🗘		e Spind		Off		-	_								×			
Hardkeys			-				-												
▶ Hardware	12 🚔	Jop: B	lun G-co	ode			<u>▼</u> G9	0G0Z[#	7020]							×			
▶ Advanced			-	F															-

- DSP style pendant should be disabled if the controller is used with a screen. This setting, when set to PHB-04B disables a number of on-screen buttons as well as blocks a few of the pendant commands. It is recommended to keep this setting disabled unless strictly necessary, as it is designed for a purely pendant-oriented interface.
- The Device List lists the available devices, while the libUSB Debug information lists the messages that the pendant sends to the computer:

Info																	SAVE CFG
CNC Settings	009	01 02	039	04 🥥	05 🤍	069	079	089	09 🕒	109	119	129	13 🚽	14 🥑	159		<u>_</u>
Connections	16	17 18	19	20	21	22	23	24	25	26	27 🌑	28	29	30	31 🔘		
Network	32	33 34	35	36	37	38	39	40	41	42	43	44	45	46	47		
Motion			510			54	55	56	57	58	59	60	61	62	63		
▶ PLC	40	49 00	519			-	22	20	579	20	29	009			039		
G-codes settings				DSP sty	le pend	ant							Di	sabled		-	
DXF import settings	LibUSB d	evices list	li	bUSB De	bug Inf	ormatio	n										
Macro List	2.00000										(In set a				-		
Macro Wizard										_	load	leraul	t for V	/HB02	J		
Probing Wizard	libuse	device coun	• Q `	outton: (						-	load c	lefault	t for P	HB02B	1		
Preferences	10CE:EB		- III	button: '							load c	lefault	for P	нвозз	ā		
Screen	1A81:10			button: (											_		
Work Offsets	0E8F:00			outton: '							load d	efault	for W	HB04I	9		
Parking Coordinates	8087:80	01	<u> </u>	button: (	0 axis: '	18 whe	el: 27				load d	lefault	for P	HB04B	3		
▼ Technology											load d	ofault	for W		5		
Plasma Cutting     Cas (Oppfue)											loau u	erault		HB043	9		
Gas/Oxyfuel Cutcharts	1 🔶	Job: Reset	current	pointer		*									×		
THC	2 🗘	Job: Stop r	unning			•									×		
Mill/Lathe	3 🔶	Job: Start	unning			-									¥		
Multi Head	4 🗘	Feed Over				-											
Laser control						<u> </u>									×		
Tangential Knife	5 🔶	Feed Over	ide: dec			<u> </u>									×		
Special Purpose	6 🔶	Spindle Sp	ed: inc			+									×		
Camera	7 🔶	Spindle Sp	eed: dec			-									×		
5 axes RTCP	8					-											
<ul> <li>Panel/Pendant</li> </ul>						-											
Wireless Pendant/XHC	9 🔶	Pendant: \		ordinate	Reset	_									×		
Operator Panel	10 🌩	Job: Run G	code			<u>▼</u> M3	02								×		
Gamepad	11 🔶	Toggle Spi	dle On/	Off		*									×		
Hotkeys Hardkeys	12 🔶		code			- G9	0G0Z[#	70201							×		
Hardkeys Hardware									_	_	_	_	_				
Advanced	5		+														_
-																	<u> </u>

• It is possible to load the default button configurations from some of the popular wireless pendants available, as listed on the right side of the screen:

Info Minimi Support Camera Config Config		SAVE CFG
CNC Settings	00 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15	-
Connections	16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	
Network	32 33 34 35 36 37 38 39 40 41 42 43 44 45 45 46 47	
Motion		
PLC	48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63	
G-codes settings	DSP style pendant Disabled •	
DXF import settings	LibUSB devices list libUSB Debug Information	
Macro List		
Macro Wizard	load default for WHB02	
Probing Wizard	libUSB device count: 8 - button: 0 axis: 18 wheel: 27 _ load default for PHB02B	
Preferences	button: 12 axis: 18 wheel: 27   load default for PHB035	
▶ Screen	1481:1006 button: 0 axis: 18 wheel: 27	
Work Offsets	068E-0048   button: 12 axis: 18 wheel: 27   load default for WHB04L	
Parking Coordinates	5057/5001 Julion: 0 axis: 18 wheel: 27 Joad default for PHB04B	
<ul> <li>Technology</li> </ul>		
Plasma Cutting	load default for WHB045	
Gas/Oxyfuel	1 🔶 Job: Reset current pointer 👻	
Cutcharts	2	
THC		
▶ Mill/Lathe	3 🔶 Job: Start running 🗾 🔀	
Multi Head	4 🔶 Feed Override: inc 🛛 🖌	
Laser control Tangential Knife	5 🔶 Feed Override: dec 👻	
<ul> <li>Special Purpose</li> </ul>	6	
Camera		
5 axes RTCP	7 🔶 Spindle Speed: dec 🔽	
<ul> <li>Panel/Pendant</li> </ul>	8 🔶 File: Open 🔽 🔀	
Wireless Pendant/XHC	9 🔶 Pendant: Work Coordinate Reset 👻	
Operator Panel	10 🔶 Job: Run G-code 🚽 M302 🔀	
Gamepad	11 ↓ Toggle Spindle On/Off ▼	
Hotkeys		
Hardkeys	12 🔶 Job: Run G-code 🗾 G90G0Z[#7020]	
▶ Hardware		
▶ Advanced 🚽		-

• If the pendant used is not listed in the defaults list, or the user wants to re-assign some of the button actions, the following options are available:

Option	Description
CNC Action	This brings up a preset action (listed in MyCNC Actions list). These are preset actions, and the majority of items further on the list can be done simply by inputting the relevant text into the CNC Action field. Whether to use CNC Actions or to simply choose one of the items below is left to the user.
CNC Variable: Switch	This switches some global variable between set values. Example of syntax: 1000/33;22;11 where 1000 is the variable, and 33, 22, and 11 are the values the variable will switch between upon each button press or input
CNC Variable: Toggle	This toggles the specified variable On and Off. Example of syntax: 1001
CNC Variable: Clear	Clears a global variable
CNC Variable: Set	Command to set the variable
CNC Variable: Assign	Writes the variable from the Global Variables list. Example of syntax: /1001
File: Open	Open a file from the host computer (brings up the dialog window)
File: Open DXF/HPGL	Open a DXF/HPGL file from the folders specified in Preferences > Common
File: Refresh	Refresh the program file
Hardware: Direct Binary Set	Directly sets a binary to be ON
Hardware: Direct Binary Clear	Sets a binary to be OFF. For example, upon inputting 15 into the field, the 15th binary will be flipped ON
Hardware: Direct DAC Set	Sets the DAC. For example, input 0/160. Here, 0 is the channel number (always 0 for DAC), while 160 is the value in units. NOTE: The value displayed in the diagnostics panel in myCNC software displays the DAC value in volts, not units. Conversion is necessary based on the voltage of the power source used.

Option	Description
Hardware: Direct PWM Set	Sets the Pulse Width Modulation. For example, $1/1600$ . Here, the 1 is the channel number for PWM, and 1600 is the value PWM is set to
Hide: Custom Widget by name	Hide the custom widget
Job: Play 1 line	Run through a single command line (next line)
Job: Play 1 line backwards	Run through a single command line (previous line)
Job: Back to path	Return back to the cutting path
Job: Skip forward	Move forward in the command program
Job: Skip backward	Move backward in the command program
Job: Skip forward 10	Skip 10 lines forward
Job: Skip backward 10	Skip 10 lines backward
Jog: X-	Jog in the negative x-axis direction
Jog: X+	Jog in the positive x-axis direction
Jog: Stop X	Stop the jog in the X-direction
Jog: X- Y-	Jog in the negative x, negative y direction
Jog: X- Y+	Jog in the negative x, positive y direction
Jog: X+ Y-	Jog in the positive x, negative y direction
Jog: X+ Y+	Jog in the positive x, positive y direction
Jog: All stop	Stop jog for all axes
Jog: Shift Set	Jog: Shift and Jog: Ctrl both refer to the settings window in Panel/Pendant > Hotkeys. The shift set indicates that the Shift button has been pressed, which will control the Jog Overspeed
Jog: Shift Clear	Indicates that the shift button has been released
Jog: Shift Toggle	Toggles the shift button on and off
Jog: Ctrl Set	Indicates that the control button has been pressed
Jog: Ctrl Clear	Indicates that the control button has been released
Jog: Ctrl Toggle	Toggles the control button
Jog Override: inc	Increase the jog override
Jog Override: dec	Decrease the jog override
Key press	Simulates a key press to be sent to the host computer
Key release	Simulates a key release
(Dlg)Key Press	Simulates a dialog key press, such as Shift, Enter, Delete, 0-9, etc
Move to toolpath	Move back to the toolpath
Parking position: Save	Save the current position as the parking position
Parking position: Move to	Move to the parking position
Pendant: Axis (*)	Switches through all the available axis values on repeat (continuously looping through the values as the button is pressed)
Pendant: Mul (*)	Switches through all available step size values on repeat (continuously looping through the available step size values)
Pendant: Wheel CW	Record the input as wheel moving clockwise
Pendant: Wheel CCW	Record the input as wheel moving counter-clockwise
Pendant: Mul increment	Designed for pendants which lack a dedicated step size switch. This will increase the step size.
Pendant: Mul decrement	Designed for pendants which lack a dedicated step size switch. This will decrease the step size.
Pendant: Axis change +	Changes the axis to the next axis available

Pendant: Axis change -       Changes the axis to the previous axis available         Pendant0: x0.001-1       Sets the increment for the machine movements which is controlled by         Pendant0: Axis off       Sets the software pendant (older versions of the software pendant twidget (older version of the software)         Pendant0: Axis X-C       Sets the axis that the software)         Pendant0: Axis X-C       Sets the axis that the software)         Pendant: Work coordinate       Takes the pendant work coordinate (in the axis specified on the pendant and halves it         Pendant: Work coordinate       Resets the work coordinate specified in the pendant axis         Reset       Run a PLC procedure (if multiple controllers are present, this defaults to the master controller)         PLC: Run procedure       Run a PLC procedure on a slave controller. The syntax for the command will be as follows: controller number / command / variable (for example, 0x01/M14/M17009)         Run Numpad       This brings up a numpad for a specific variable/item into which twill change the value for the Global Variable %522 (step size)         Show: Pendant control       Brings up the pendant control widget in the myCNC software         Select taxis       Select the particular axis         Show: Widget       Shows a particular widget, such as Library Shape, Diagnostics, Config, etc.         Feed overdrive: inc       Increase the feed overdrive         Feed overdrive: dec       Decrease the feed overdrive	Option	Description
Pendant0: x0.001-1         Sets the increment for the machine movements which is controlled by the software pendant (older versions of the software have a pendant widget which can be used as a substitute for a pendant control)           Pendant0: Axis off         This turns off the selected axis in the software pendant widget (older version of the software)           Pendant0: Axis X-C         Sets the axis that the software widget pendant will be sending commands to           Pendant: Work coordinate Reset         Takes the pendant work coordinate specified in the pendant axis           PPCC: Run procedure PLC: Run procedure         Run a PLC procedure (if multiple controllers are present, this defaults to the master controller)           PLC: Run external unit procedure         Run a PLC procedure on a slave controller. The syntax for the command will be as follows: controller number / command / variable (for example, 0x01/M74/#7009)           This brings up a numpad for a specific variable//tem into which the user can then type in a value. The user can set this to bring up the numpad for any device variable/yariable/syscreen items. Example of syntax:: cnc gariable:5522 - this will bring a numpad typing in twolich will change the value for the Global Variable #5522 (step size)           Show: Pendant control         Brings up the pendant control widget in the myCNC software           Select axis         Select the particular axis           Show: Select the particular axis         Shows a particular widget, such as Library Shape, Diagnostics, Config. etc           Feed overdrive: inc         Increase the feed overdrive simply specifying the pos	-	
Version of the software)           Pendant0: Axis X-C         Sets the axis that the software widget pendant will be sending commands to           Pendant: Work coordinate         Takes the pendant work coordinate (in the axis specified on the pendant and halves it           Pendant: Work coordinate         Resets the work coordinate specified in the pendant axis           Reset         Resets the work coordinate specified in the pendant axis           PLC: Run procedure         Run a PLC procedure (if multiple controllers are present, this defaults to the master controller)           PLC: Run external unit procedure         Run a PLC procedure on a slave controller. The syntax for the command will be as follows: controller number / command / variable (for example, 0x01/MT4/#7009)           Run Numpad         This brings up a numpad for a specific variable/item into which the user can set this to bring up the numpad for any device variable/gvariables/screen items. Example of syntax: cnc gvariable-5522 + this will bring a numpad typing into which will change the value for the Global Variable #5522 (step size)           Show: Pendant control         Brings up the pendant control widget in the myCNC software           Select axis         Select the particular axis           Show: Widget         Etc           Feed overdrive: inc         Increase the feed overdrive           Feed overdrive: dec         Decrease the current spindle speed           Spindle Speed: inc         Increase the current spindle speed           Spin	Pendant0: x0.001-1	Sets the increment for the machine movements which is controlled by the software pendant (older versions of the software have a pendant
Perification: AKIS X-Ccommands toPendant: Work coordinate HalfTakes the pendant work coordinate (in the axis specified on the pendant and halves itPendant: Work coordinate ResetResets the work coordinate specified in the pendant axisPLC: Run procedureRun a PLC procedure (if multiple controllers are present, this defaults to the master controller)PLC: Run external unit procedureRun a PLC procedure on a slave controller. The syntax for the command will be as follows: controller number / command / variable (for example, 0x01/M74/#7009)Run NumpadThis brings up a numpad for a specific variable/item into which the user can then type in a value. The user can set this to bring up the numpad for any device variable/gyariable/screen items. Example of syntax: cnc gvariable-5522 this will bring a numpad typing into which will change the value for the Global Variable #5522 (step size)Show: Pendant control widgetBrings up the pendant control widget in the myCNC softwareShow: WidgetShows a particular widget, such as Library Shape, Diagnostics, Config, etcFeed overdrive: incIncrease the feed overdriveFeed overdrive: Set %Set the feed overdrive as a percentage of the default (100%)Spindle Speed: incIncrease the current spindle speedSpindle Speed: setSet the current spindle speedSp	Pendant0: Axis off	
Half         and halves it           Pendant: Work coordinate Reset         Resets the work coordinate specified in the pendant axis           Reset         Resets the work coordinate specified in the pendant axis           PLC: Run procedure         Run a PLC procedure (if multiple controllers are present, this defaults to the master controller)           PLC: Run external unit procedure         Run a PLC procedure on a slave controller. The syntax for the command will be as follows: controller number / command / variable (for example, 0x01/M74/#7009)           Run Numpad         This brings up a numpad for a specific variable/item into which the user can then type in a value. The user can set this to bring up the numpad for any device variable/gvariables/screen items. Example of syntax: cnc gvariable-5522 - this will bring a numpad typing into which will change the value for the Global Variable #5522 (step size)           Show: Pendant control widget         Brings up the pendant control widget in the myCNC software           Select axis         Select the particular axis           Show: Widget         Shows a particular widget, such as Library Shape, Diagnostics, Config, etc           Feed overdrive: inc         Increase the feed overdrive           Feed overdrive: Set %         Set the feed overdrive           Feed overdrive: Set %         Set the feed overdrive as a percentage of the default (100%)           Spindle Speed: inc         Jucrease the current spindle speed           Spindle Speed: dec         Decrease the current sp	Pendant0: Axis X-C	
Reset         Resets the work coordinate specified in the pendant axis           PLC: Run procedure         Run a PLC procedure (if multiple controllers are present, this defaults to the master controller)           PLC: Run external unit procedure         Run a PLC procedure on a slave controller. The syntax for the command will be as follows: controller number / command / variable (for example, 0x01/M74/#7009)           This brings up a numpad for a specific variable/item into which the user can then type in a value. The user can set this to bring up the numpad for any device variable/gvariables/screen items. Example of syntax: cnc gvariable-5522 + this will bring a numpad typing into which will change the value for the Global Variable #5522 (step size)           Show: Pendant control widget         Brings up the pendant control widget in the myCNC software           Select taxis         Select the particular axis           Show: Widget         Shows a particular axis           Feed overdrive: inc         Increase the feed overdrive           Feed overdrive: inc         Increase the feed overdrive           Feed overdrive: set %         Set the current spindle speed           Spindle Speed: inc         Increase the current spindle speed           Spindle Speed: dec         Decrease the current spindle speed           Spindle Speed: set         Set the current spindle speed           Spindle Speed: set         Set the current spindle speed           Spindle Speed: dec         Decrease the current spindle sp	Pendant: Work coordinate Half	Takes the pendant work coordinate (in the axis specified on the pendant) and halves it
PLC: Run procedurethe master controller)PLC: Run external unit procedureRun a PLC procedure on a slave controller. The syntax for the command will be as follows: controller number / command / variable (for example, 0x01/M74/#7009)Run NumpadThis brings up a numpad for a specific variable/item into which the user can then type in a value. The user can set this to bring up the numpad for any device variable/sorcene items. Example of syntax: cnc gvariable-5522 - this will bring a numpad typing into which will change the value for the Global Variable #5522 (step size)Show: Pendant control widgetBrings up the pendant control widget in the myCNC softwareSelect axisSelect the particular axisShow: WidgetShows a particular widget, such as Library Shape, Diagnostics, Config, etcFeed overdrive:Increase the feed overdriveFeed overdrive:Decrease the feed overdriveFeed overdrive:Set the feed overdrive as a percentage of the default (100%)Spindle Speed: incIncrease the current spindle speedSpindle Speed: decDecrease the current spindle speedSpindle Speed: setSet the current spindle speedSpindle Speed: setSet the current spindle speedSpindle Speed: setSet the current spindle speedTie Toolpath Position to current work position to the toolpath position to the control program anywhere on the sheet, by simply specifying the position of the toolpath - extremely useful for sma remainders of metal sheets which can still fit one of the parts of a larger control program file.Toggle Machine/Work DRO (if applicable)A setting for pendants which only show one coordinat	Pendant: Work coordinate Reset	Resets the work coordinate specified in the pendant axis
PLC: Run external unit procedurewill be as follows: controller number / command / variable (for example, 0x01/M74/#7009)Will be as follows: controller number / command / variable (for example, 0x01/M74/#7009)This brings up a numpad for a specific variable/item into which the user can then type in a value. The user can set this to bring up the numpad for any device variable/gvariables/screen items. Example of syntax: cnc gyariable-5522 - this will bring a numpad typing into which will change 	PLC: Run procedure	Run a PLC procedure (if multiple controllers are present, this defaults to the master controller)
Run Numpadcan then type in a value. The user can set this to bring up the numpad for any device variable/gvariables/screen items. Example of syntax: cnc gvariable-5522 + this will bring a numpad typing into which will change the value for the Global Variable #5522 (step size)Show: Pendant control widgetBrings up the pendant control widget in the myCNC softwareSelect axisSelect the particular axisShow: WidgetShows a particular widget, such as Library Shape, Diagnostics, Config, etcFeed overdrive: incIncrease the feed overdriveFeed overdrive: decDecrease the feed overdriveFeed overdrive: Set %Set the feed overdrive as a percentage of the default (100%)Spindle Speed: incIncrease the current spindle speedSpindle Speed: decDecrease the current spindle speedSpindle Speed: setSet the current spindle speedUsed on control programs with a large number of parts, this allows to tie the toolpath position to to the control program anywhere on the sheet, by simply specifying the position of the toolpath - extremely useful for sma remainders of metal sheets which can still fit one of the parts of a larger control program novich as sheet swhich can still fit one of the parts of a larger control program coordinate]. This allows to switch between the two coordinate systems - used only on select controllers.Toggle Jog mode unlimited/stepSwitch between the unlimited and a set step jog for machine movement froggle Flood on/offTurns the liquid cooling (flood) ON and OFF	PLC: Run external unit procedure	Run a PLC procedure on a slave controller. The syntax for the command will be as follows: controller number / command / variable (for example, 0x01/M74/#7009)
widgetBrings up the pendant control widget in the myCNC softwareSelect axisSelect the particular axisShow: WidgetShows a particular widget, such as Library Shape, Diagnostics, Config, etcFeed overdrive: incIncrease the feed overdriveFeed overdrive: decDecrease the feed overdriveFeed overdrive: Set %Set the feed overdrive as a percentage of the default (100%)Spindle Speed: incIncrease the current spindle speedSpindle Speed: decDecrease the current spindle speedSpindle Speed: setSet the current spindle speedUsed on control programs with a large number of parts, this allows to the the toolpath position to to cut out a small part of the control program anywhere on the sheet, by 	Run Numpad	for any device variable/gvariables/screen items. Example of syntax: cnc- gvariable-5522 - this will bring a numpad typing into which will change
Show: WidgetShows a particular widget, such as Library Shape, Diagnostics, Config, etcFeed overdrive: incIncrease the feed overdriveFeed overdrive: decDecrease the feed overdriveFeed overdrive: Set %Set the feed overdrive as a percentage of the default (100%)Spindle Speed: incIncrease the current spindle speedSpindle Speed: decDecrease the current spindle speedSpindle Speed: setSet the current spindle speedSpindle Speed: setSet the current spindle speedTie Toolpath Position to current work positionUsed on control programs with a large number of parts, this allows to tie the toolpath position to the current work position. Effectively, this allows 	Show: Pendant control widget	Brings up the pendant control widget in the myCNC software
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enable/disableoffToggle Flood on/offTurns the liquid cooling (flood) ON and OFF	Toggle Jog mode unlimited/step	Switch between the unlimited and a set step jog for machine movements
	Toggle Soft Limits enable/disable	Turn the soft limits (specified in Inputs/Outputs/Sensors > Limits) on and off
Toggle Spindle on/off Toggle whether the spindle is currently ON or OFF	Toggle Flood on/off	Turns the liquid cooling (flood) ON and OFF
	Toggle Spindle on/off	Toggle whether the spindle is currently ON or OFF

Option	Description
Toggle Spindle CCW on/off	Toggle the spindles CCW rotation ON or OFF
Toggle Constant Velocity on/off	CV (constant velocity) is described in MyCNC Constant Velocity Mode (CV) manual
Toggle Virtual Keyboard	Brings up the virtual keyboard up on the screen, or hides it if already present.
Toggle: custom widget by name	Specifies a custom widget to bring up on the screen (or close it if already displayed).
View: Zoom In	Zoom in on the control program visualization
View: Zoom Out	Zoom out on the control program visualization
View: Fit to window	Fit the entire view into the visualization window
Work coordinate: Set	Set the work coordinate (using the specified axis value from the user panel, NOT the typical pendant control)
Work coordinate: Reset	Reset the work coordinate (from user panel)
Work Coordinate: 1/2	Half the work coordinate (from user panel)

These options allow the user to edit every button on their pendant control to their particular configuration if required. For simple pendants included in the defaults list, it is usually recommended to use the default settings.

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