OP	Decimal	Nibble 1	Nibble 2	Type	Usage	Description
SYMBOLS:		**1111**				
SEP	-1	**1111**	**1111**	Symbol	Seperator	Expression Block Seperator
FUNC	-2	**1111**	**1110**	Symbol	Function Block	Function Block Seperator, used while defining functions
ADD	-3	**1111**	**1101**	Symbol	Add	
SUB	-4	**1111**	**1100**	Symbol	Subtract	
MUL	-5	**1111**	**1011**	Symbol	Multiply	
DIV	-6	**1111**	**1010**	Symbol	Divide	
AND	-7	**1111**	**1001**	Symbol	And	For Joining Conditionals
OR	-8	**1111**	**1000**	Symbol	Or	For Joining Conditionals
RND	-9	**1111**	**0111**	Symbol	Random Number	Returns random number between 0-127
OP	**Decimal**	**Nibble 1**	**Nibble 2**	**Type**	**Usage**	**Description**
CONDITIONALS:		**1111**				Used in this manner: [Cx][Register or number 1][Register or number 2][code to execute][SEP] If the comparison evaluates to false, then the rest of the expression block is skipped.
CG	-11	**1111**	**0101**	Conditional	Greater	
CL	-12	**1111**	**0100**	Conditional	Less	
CE	-13	**1111**	**0011**	Conditional	Equal	
CNE	-14	**1111**	**0010**	Conditional	Not Equal	
CGE	-15	**1111**	**0001**	Conditional	Greater or Equal	
CLE	-16	**1111**	**0000**	Conditional	Less or Equal	
OP	**Decimal**	**Nibble 1**	**Nibble 2**	**Type**	**Usage**	**Description**
REGISTERS:		**1000**				
R1	-127	**1000**	**0001**	Register	Number Storage	
R2	-126	**1000**	**0010**	Register	Number Storage	
R3	-125	**1000**	**0011**	Register	Number Storage	
R4	-124	**1000**	**0100**	Register	Number Storage	
R5	-123	**1000**	**0101**	Register	Number Storage	
R6	-122	**1000**	**0110**	Register	Number Storage	
R7	-121	**1000**	**0111**	Register	Number Storage	
R8	-120	**1000**	**1000**	Register	Number Storage	
OP	**Decimal**	**Nibble 1**	**Nibble 2**	**Type**	**Usage**	**Description**
EEPROM:		**1000**				

ER	-119		**1001**	Storage	EEPROM READ	ER <ADDR>
EW	-118		**1010**	Storage	EEPROM WRITE	EW <ADDR> <VALUE>
OP	**Decimal**	**Nibble 1**	**Nibble 2**	**Type**	**Usage**	**Description**
FUNCTIONS:		**1100**				A function name followed by a function block: [Fx][#][#] sets a function. The function name by itself calls that function.
F1	-63	**1100**	**0001**	Function		
F2	-62	**1100**	**0010**	Function		
F3	-61	**1100**	**0011**	Function		
F4	-60	**1100**	**0100**	Function		
F5	-59	**1100**	**0101**	Function		
F6	-58	**1100**	**0110**	Function		
F7	-57	**1100**	**0111**	Function		
F8	-56	**1100**	**1000**	Function		
OP	**Decimal**	**Nibble 1**	**Nibble 2**	**Type**	**Usage**	**Description**
SLEEP:		**1001**			Delay Program	
S1	-111	**1001**	**0001**	Builtin	sleep 1 second	
S2	-110	**1001**	**0010**	Builtin	sleep 2 second	
S3	-109	**1001**	**0011**	Builtin	sleep 3 second	
S4	-108	**1001**	**0100**	Builtin	sleep 4 second	
S5	-107	**1001**	**0101**	Builtin	sleep 5 second	
S6	-106	**1001**	**0110**	Builtin	sleep 6 second	
S7	-105	**1001**	**0111**	Builtin	sleep 7 second	
S8	-104	**1001**	**1000**	Builtin	sleep 8 second	

OP	Decimal	Nibble 1	Nibble 2	Type	Usage	Description
DEEP SLEEP:		**1011**			Save Power	Arduino Power Down Mode
D0	-80	**1011**	**0000**	Builtin	infinite deepsleep/wake with RUN button	Sleeps indefinitively until RUN button is pressed.
D1	-79	**1011**	**0001**	Builtin	1 minute deepsleep	
D2	-78	**1011**	**0010**	Builtin	2 minutedeepsleep	
D3	-77	**1011**	**0011**	Builtin	3 minutedeepsleep	
D4	-76	**1011**	**0100**	Builtin	4 minutedeepsleep	
D5	-75	**1011**	**0101**	Builtin	5 minute deepsleep	
D6	-74	**1011**	**0110**	Builtin	6 minute deepsleep	
D7	-73	**1011**	**0111**	Builtin	7 minute deepsleep	
D8	-72	**1011**	**1000**	Builtin	8 minute deepsleep	
OP	**Decimal**	**Nibble 1**	**Nibble 2**	**Type**	**Usage**	**Description**
LOOP:		**1010**				
LP	-96	**1010**	**0000**	Builtin	Loop Function	When called from within a function or expression, it starts function code from beginning of function or expression. Cannot be used to loop functions that have SEP keywords. In that case LPF must be used.
LR1	-95	**1010**	**0001**	Builtin	Loop Register	Loops code block between seperators number of times stored in selected register.
LR2	-94	**1010**	**0010**			
LR3	-93	**1010**	**0011**			
LR4	-92	**1010**	**0100**			
LR5	-91	**1010**	**0101**			
LR6	-90	**1010**	**0110**			
LR7	-89	**1010**	**0111**			
LR8	-88	**1010**	**1000**			
LPF	-87	**1010**	**1001**		Loop Function	Exclusevly loops a function

OP	Decimal	Nibble 1	Nibble 2	Type	Usage	Description
PIN:		**1110**		Builtin	Control Pin	The Pin Bits are arranged in a way that makes it easy to visualize what the pin is set to. PB2 is accessable on the header on top of device. This will be the only pin we are controlling with the Pin Functions.
PDOH	-25	**1110**	**0111**	Builtin	Digital, Out, High	
PDOL	-26	**1110**	**0110**	Builtin	Digital, Out, Low	
PDIU	-27	**1110**	**0101**	Builtin	Digital, In, Pullup	
PDID	-28	**1110**	**0100**	Builtin	Digital, In, No Pullup	
PAIX	-29	**1110**	**0011**	Builtin	Analog In	
PAXX	-30	**1110**	**0010**	Builtin	Read ADC2	The device has a built in resistor divider, to get voltage: (analog reading)*5.5/1024
OP	**Decimal**	**Nibble 1**	**Nibble 2**	**Type**	**Usage**	**Description**
LED:		**1101**				For controlling built in LED on PB1 and PB0
L0L	-48	**1101**	**0000**	Builtin	Led 0, High	
L0H	-47	**1101**	**0001**	Builtin	Led 0, Low	
L1L	-46	**1101**	**0010**	Builtin	Led 1, High	
L1H	-45	**1101**	**0011**	Builtin	Led 1, Low	
OP	**Decimal**	**Nibble 1**	**Nibble 2**	**Type**	**Usage**	**Description**
BUTTONS:		**1101**				For getting button pressed ID. We exclude Button 5 (R), as that is the STOP button when program is running.
BG	-44	**1101**	**0100**	Builtin	Wait for Button Press	Resets BV to 0 when called
BV	-43	**1101**	**0101**	Builtin	Register of stored button press	
OP	**Decimal**	**Nibble 1**	**Nibble 2**	**Type**	**Usage**	**Description**
Builtin Functions		**1101**				
BB	-40	**1101**	**1111**	Builtin	Blinks next byte	BB R1