

Grammar Notes

Function	Sample	Details
I2C Operations		
read byte	readbyte 01h D1h	readbyte : key word to read byte value
	readbyte 01h D1h to x	readword : key word to read word value
	readbyte 01h D1h 00h	01h: slave address (hexadecimal)
	readbyte 01h D1h 00h to x	D1h: register address (hexadecimal)
read word	readword 01h D1h	00h: user expect value is 00h (use for verification)(hex)
	readword 01h D1h to x	to : keyword means to save the readback value
	readword 01h D1h 01EFh	x: a variable named "x" to save the real result
	readword 01h D1h 01EFh to x	
write byte	writebyte 01h D1h 01h	01h: byte value need to be written in
write word	writeword 01h D1h 01EFh	01EFh: word value need to be written in
send	send 01h D1h	send command
delay	delay 50	delay 50 ms
Operator		
assign value	var x = 1	var : keyword which means to define and set value to a variable x: a variable named "x" to save the result
Add	var x = 1 + 2	
Minus	var x = 2 - 1	
Multiply	var x = 2 * 3	
Divide	var x = 3 / 2	
log with e as the base	var x = ln(4)	
Power	var x = 3 ^ 2	
AND	var x = 01h & Efh	
OR	var x = 01h Efh	
parentheses	var x = (3-1)*1+12/ln(3^2)	Increase internal computing priorities
Comparision		
greater than	if x > 3	x: operand, a variable named "x"
less than	if x < 3	3: operand (decimal)
greater than or equal	if x >= 3	if : keyword in conditional statement
less than or equal	if x <= 3	
equal	if x == 3	
Statement		
condition (Support nesting)	if x > 3 var x= 1 else var x= 2 endif	if-else-endif or if-endif
looping (Support nesting)	loop 3 readbyte 01h D1h A1h to x writebyte 01h D1h x endloop	loop-endloop 3: loop time
Others		
variable definition	var x = 1	
save variables to local path	savepath C:\MyFolder\save.txt var x1 = 1 var x2 = 2 save x1 x2	savepath : keyword to specify the save path save : keyword to save the following variables
value format	var x = 01h	01h: ends with "h" means hexadecimal
	var x = 10	10: decimal
comment	# this is a comment	# : comments needs to start with "#"

Sample 1

```
readword 01h D1h 00FFh
savepath C:\MyFolder\save.txt
var x = 1
var value = 12h
var test = 5.1

# this is a test
loop 3
  readbyte 01h D1h A1h to value
  var value = value & 7Fh | 80h      #D[7] = 1
  writebyte 01h D1h value
  send 01h D1h          #this is a test

  loop 2
    writebyte 01h D1h x
    save value x
    var x = x + 1
  endloop

  delay 100
endloop
```

Sample 2

```
var x = 1
var a = (3-1)*1+12/6    # a = 4
var value = 0

loop a
  if x > 3
    var value = 1
  else
    if x < 2
      var value = 2
    else
      var value = 3
    endif
  endif
endloop
```