GO PLUS 2 IIC Instructions

1. Go plus 2 is a slave device that supports m5stack control and communicates through

2 Operation and control
IIC sequential read-write operation is supported, and the device address is 0x38.

2.1 **Register**

**First group** servo angle control

|  |  |  |  |
| --- | --- | --- | --- |
| ADDR(H) | **Register description** | R/W | Default value |
| 0x00 | Servo1 angle | W | None |
| 0x01 | Servo2 angle | W | None |
| 0x02 | Servo3 angle | W | None |
| 0x03 | Servo4 angle | W | None |

PulseWidth

|  |  |  |  |
| --- | --- | --- | --- |
| ADDR(H) | **Register description** | R/W | Default value |
| 0x10 | Servo1 plusewidth | W | None |
| 0x12 | Servo2 plusewidth | W | None |
| 0x14 | Servo3 plusewidth | W | None |
| 0x16 | Servo4 plusewidth | W | None |

Note: servo angle range: 0 – 180, pulse width: 500 – 2500

**Second group** motor control class

|  |  |  |  |
| --- | --- | --- | --- |
| ADDR(H) | **Register description** | R/W | Default value |
| 0x30 | Motor1 speed and direction | W | None |
| 0x31 | Motor2 speed and direction | W | None |

Note: the motor parameter range is - 127 – 127

**Third group** port B1 control class

|  |  |  |  |
| --- | --- | --- | --- |
| ADDR(H) | **Register description** | R/W | Default value |
| 0x40 | Pin\_I Analog input | R | None |
| 0x50 | Pin\_I digital input | R | None |
| 0x60 | Pin\_O digital output | W | None |
| 0x70 | Pin\_O digital input | R | 1 |
| 0X80 | Config Pin\_O with input(1) or output(0) | W | 0 output |

PORT B2 control class

|  |  |  |  |
| --- | --- | --- | --- |
| ADDR(H) | **Register description** | R/W | Default value |
| 0x42 | Pin\_I Analog input | R | None |
| 0x51 | Pin\_I digital input | R | None |
| 0x61 | Pin\_O digital output | W | None |
| 0x71 | Pin\_O digital input | R | 1 |
| 0X81 | Config Pin\_O with input(1) or output(0) | W | 0 output |

PORT B3 控制类

|  |  |  |  |
| --- | --- | --- | --- |
| 地址(H) | 寄存器描述 | R/W | 默认值 |
| 0x44 | Pin\_I Analog input | R | None |
| 0x52 | Pin\_I digital input | R | None |
| 0x62 | Pin\_O digital output | W | None |
| 0x72 | Pin\_O digital input | R | 1 |
| 0X82 | Config Pin\_O with input(1) or output(0) | W | 0 output |

Note: Port B has two pin interfaces I and O. I can only be configured as analog input or digital input, and O can only be configured as digital input or digital output