| Qwiic Button Register Map | | | | | | |
|---------------------------|--------------|------------------------|---------------|------------|--------------------------|---|
| Byte | | 5 | | | | |
| Number 0 | | Register Name | Type | Read/Write | Power On Reset | , - |
| 1 | 0x00 0x01 | id firmware LSB | byte | Read Only | 0x5D | Qwiic Button ID |
| 2 | 0x01 | firmware MSB | byte | RW | 0x0101 | The current firmware version. |
| 3 | 0x03 | Button Status | byte | RW | 0x00 | Bit 0 (eventAvailable) is set to 1 when a new event occurs user must write 0 to clear. Bit 1 (hasBeenClicked) defaults to 0 on POR, is set to one when the button is clicked, must be cleared by the user. Bit 2 (isPressed) is set to 1 when the button is pushed. |
| 4 | 0x04 | Interrupt Config | byte | RW | 0x11 (User Settable) | Set bit 0 to 1 to enable an interrupt when the button is clicked. Set bit 1 to 1 to enable a button pressed interrupt |
| 5 | 0x05 | Dutton Dobounce Time | uint16_t | RW | 0x000A(User Settable) | The Dutter Dehauses time in me Default is 10 mg |
| 0 | 0x06 | Button Debounce Time | | | | The Button Debounce time in ms. Default is 10 ms |
| 7 | 0x07 | Pressed Queue Status | byte | RO/RW | 0x02 | bit 0 is 1 if buffer is full, bit 1 is 1 if buffer is empty. Both are Read Only. Bit 2 is Read/Write and is the popRequest bit, user sets to 1 to pop from queue, then pops data from queue, then the user sets the bit back to 0 |
| 8 | 0x08 | | , | | | |
| | 000 | | | | | |
| 9 | 0x09 0x0A | | | | | |
| 10 | UXUA | | | | | |
| 11 | 0x0B | Pressed Queue Front | unsigned long | RO | 0x00000000 | Holds the timestamp of the newest press |
| 12 | 0x0C | | | | | |
| 13 | 0x0D | | | | | |
| 14 | 0x0E | Description Over Desk | | DO | 000000000 | Holde the time eternic of the address was a |
| 15 | 0x0F | Pressed Queue Back | unsigned long | RO | 0x00000000 | Holds the timestamp of the oldest press |
| 10 | 0.40 | Clinical Oversa Status | h. da | DO/DW/ | 002 | bit 0 is 1 if buffer is full, bit 1 is 1 if buffer is empty. Both are Read Only. Bit 2 is Read/Write and is the popRequest bit, user sets to 1 to pop from queue, then pops data from |
| 16 17 | 0x10 0x11 | Clicked Queue Status | byte | RO/RW | 0x02 | queue, then the user sets the bit back to 0 |
| 18 | 0x11 | | | | | |
| 19 | 0x12 | | | | | |
| 20 | 0x14 | Clicked Queue Front | unsigned long | RO | 0x00000000 | Holds the timestamp of the newest click |
| 21 | 0x15 | | J 11 1 1 1 | | | |
| | | | | | | |
| 22 | 0x16 | | | | | |
| 23 | 0x17 | | | | | |
| 24 | 0x18 | Clicked Queue Back | unsigned long | RO | 0x00000000 | Holds the timestamp of the oldest click |
| 25 | 0x19 | LED Brightness | byte | RW | 0x00 | Stores the brightness of the LED as a value between 0 and 255 |
| 26 | 0x1A | LED Pulse Granularity | byte | RW | 0x01 | The amount of steps it takes to get to led brightness |
| 27 | 0x1B | | | | | Total pulse cycle in ms, does not include off time, LED |
| 28 | 0x1C | LED Pulse Cycle Time | uint16_t | RW | 0x01F4 | pulse disabled if 0 |
| 29 | 0x1D | LED Date: OUT | | DIA. | 0.0454 | Off Time Instrumental and in the 12 ft. 11 is 500 |
| 30 | 0x1E | LED Pulse Off Time | uint16_t | RW | 0x01F4 | Off Time between pulses in ms (Default is 500 ms) |
| 31 | 0x1F | I2C Address | byte | R/W | NVM/User Set | I2C address can be changed, defualt is 0x6F |

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