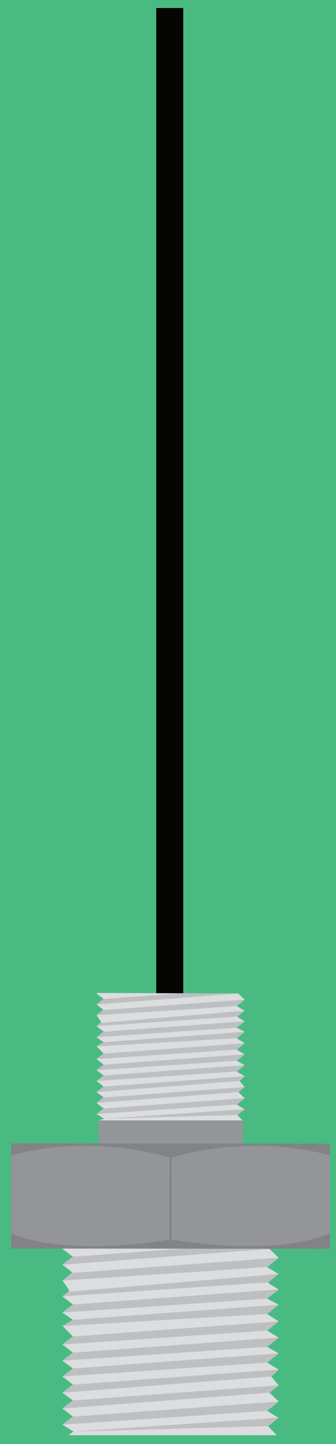
AtlasScientific™
Environmental Robotics

V 1.2

Revised 10/21

EZO-HUM™

Embedded Humidity sensor



Reads	**Relative humidity** **Dew point** **Air temperature**
Range	**0 – 100%**
Calibration	**Factory calibrated**
Response time	**1 reading per second** (UART mode) **1 reading per 300 milliseconds** (I2C mode)
Accuracy	**+/- 2%**
Connector	**5 lead data cable**
Cable length	**1 meter**
Data protocol	**UART & I²C**
Default I2C address	**111 (0x6F)**
Data format	**ASCII**
Operating voltage	**3.3V – 5V**
IP rating	**IP67**
Life expectancy	**10 years**

Written by Jordan Press
Designed by Noah Press

This is an evolving document, check back for updates.

Table of contents

UART

I²C

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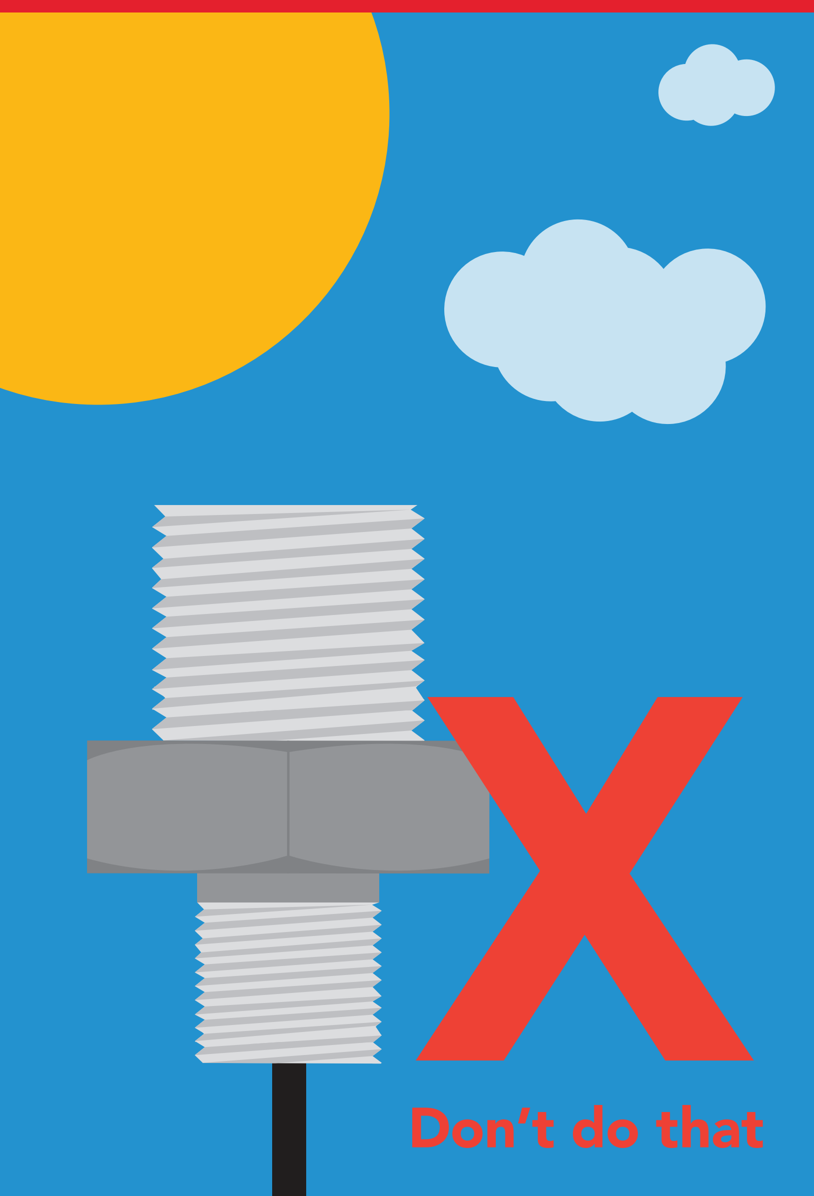
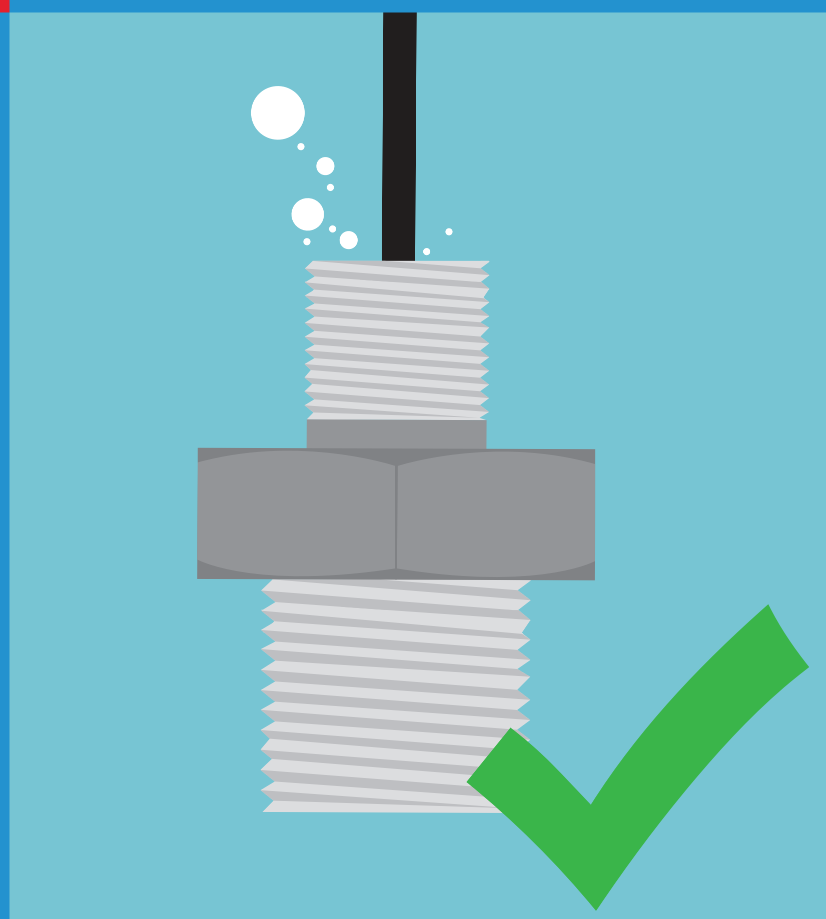
Attention

The EZO-HUM™ is 100% operational out of the box.
CALIBRATION IS UNNECESSARY

Direct sunlight will heat the sensor above the air temperature, making the readings incorrect.

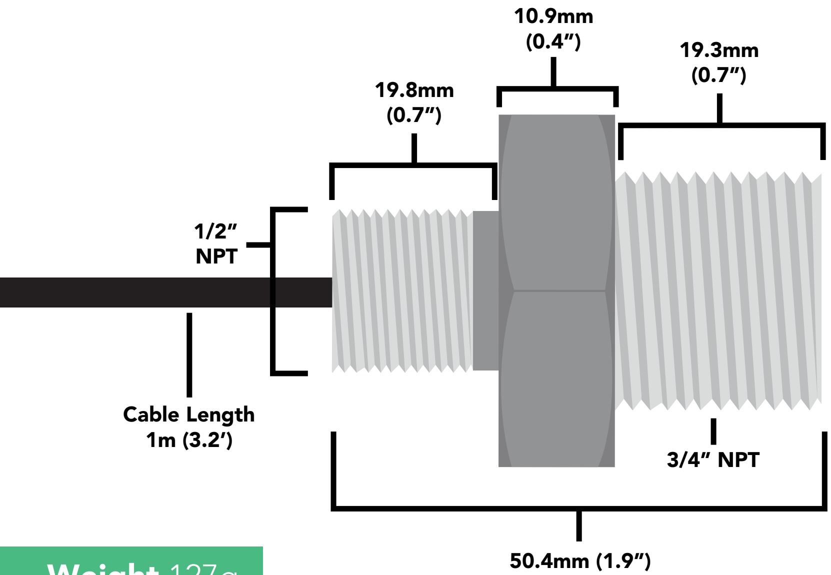


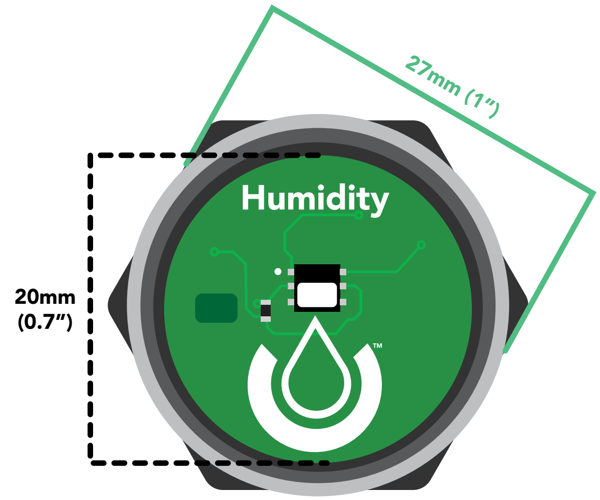
Can the sensor get wet?



Yes, readings will be >100% when wet and will return to normal once dry.

Physical properties





Weight 127g

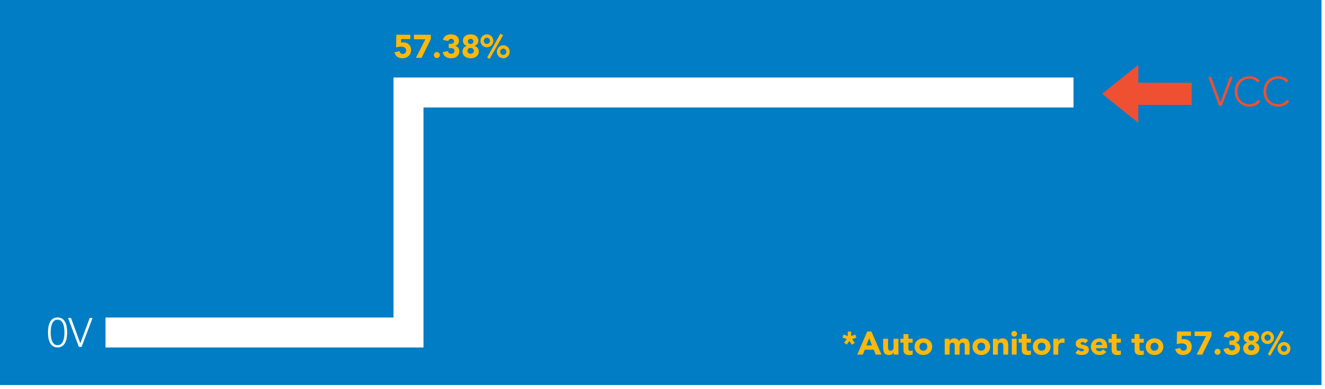
Body 316 Stainless Steel

Pin out

Data and power cable pinout

White	–	RX/SCL
Green	–	TX/SDA
Black	–	GND
Red	–	VCC
Blue	–	AUTO

The auto monitor pin will go high when a set humidity has been reached.



If unused leave **AUTO** floating. Do not connect **AUTO** to **VCC** or **GND**.

See page **18** to enable auto-monitoring in UART mode.
See page **40** to enable auto-monitoring in I2C mode.

Power consumption

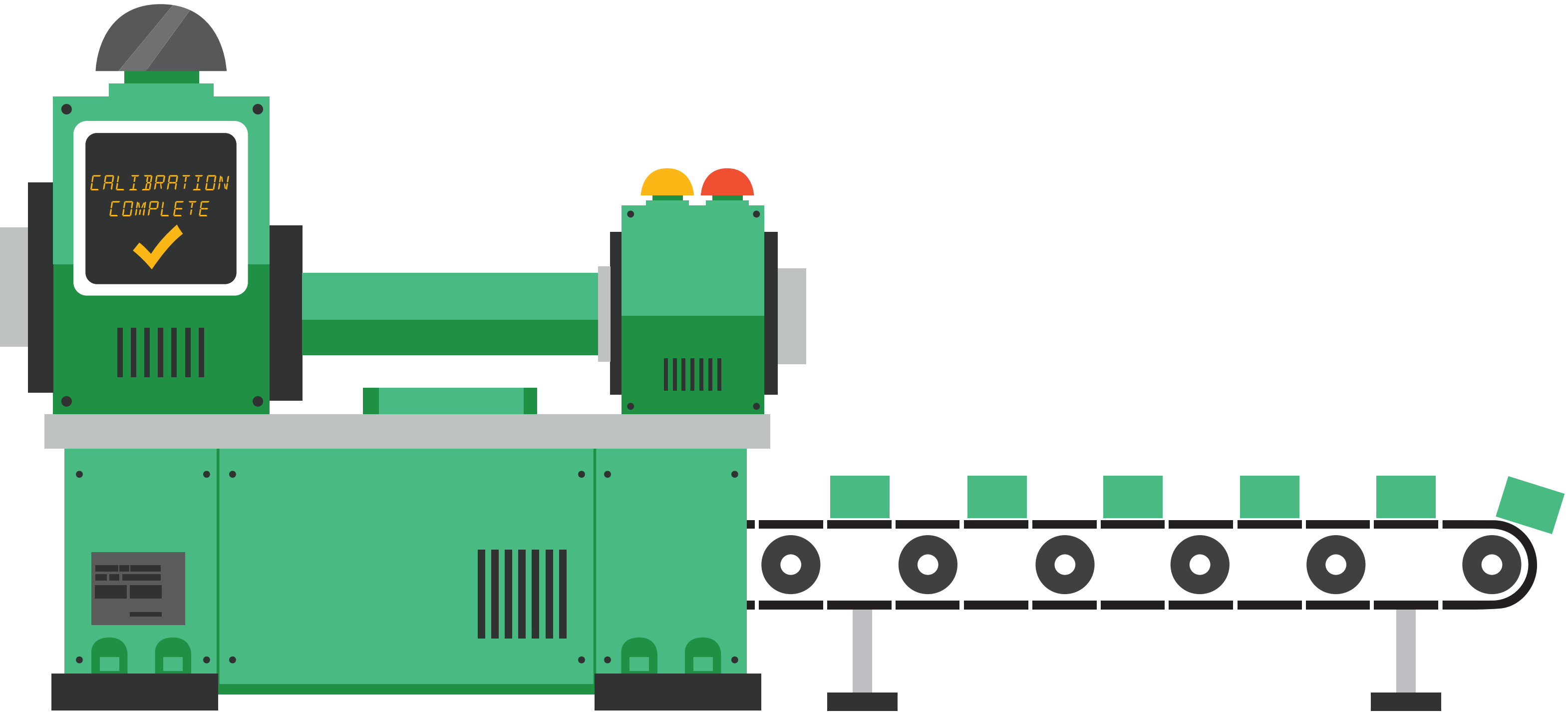
	LED	MAX	SLEEP
5V	ON	2.6 mA	0.5 mA
	OFF	2.4 mA	
3.3V	ON	2.2. mA	0.3 mA
	OFF	2.0 mA	

Absolute max ratings

Parameter	MIN	TYP	MAX
Storage temperature	-30 °C		75 °C
Operational temperature	-20 °C	25 °C	50 °C
VCC	3.3V	3.3V	5.5V

Calibration theory

The Atlas Scientific EZO-HUM™ Embedded Humidity Sensor comes pre-calibrated.



The factory calibration data is permanently stored in the sensor and cannot be erased.

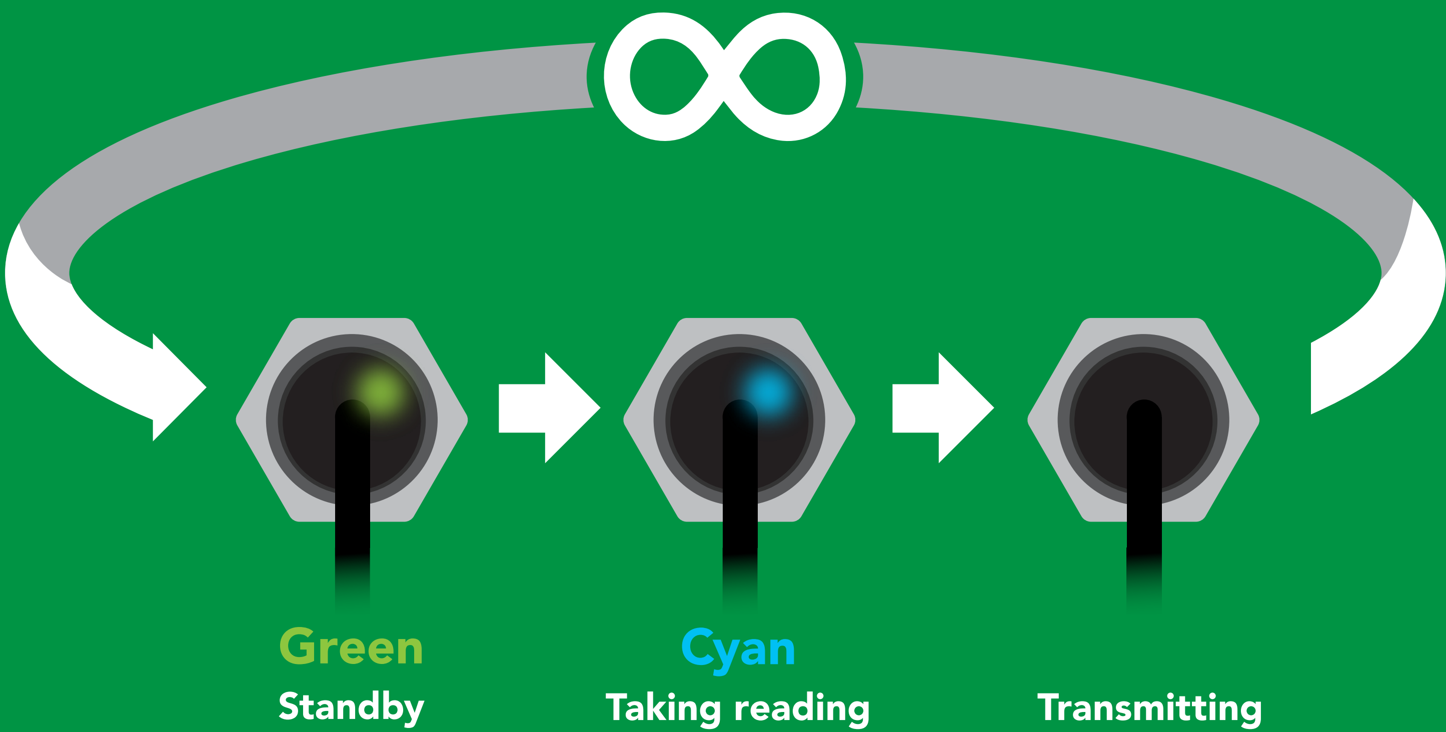
Custom calibration

This sensor does not require recalibration.
This sensor does not offer onboard custom calibration.

Default state

UART mode

Baud	9,600
Readings	continuous
Speed	1 second
LED	on



✓ Available data protocols

UART

default

I²C

X Unavailable data protocols

SPI

Analog

RS-485

Mod Bus

4–20mA

UART mode

Settings that are retained if power is cut

Auto monitor
Baud rate
Continuous mode
Device name
Enable/disable parameters
Enable/disable response codes
Hardware switch to I2C mode
LED control
Protocol lock
Software switch to I2C mode

Settings that are *NOT* retained if power is cut

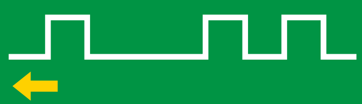
Sleep mode

UART mode

8 data bits	no parity
1 stop bit	no flow control

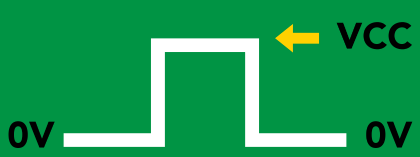
Baud
300
1,200
2,400
9,600 default
19,200
38,400
57,600
115,200

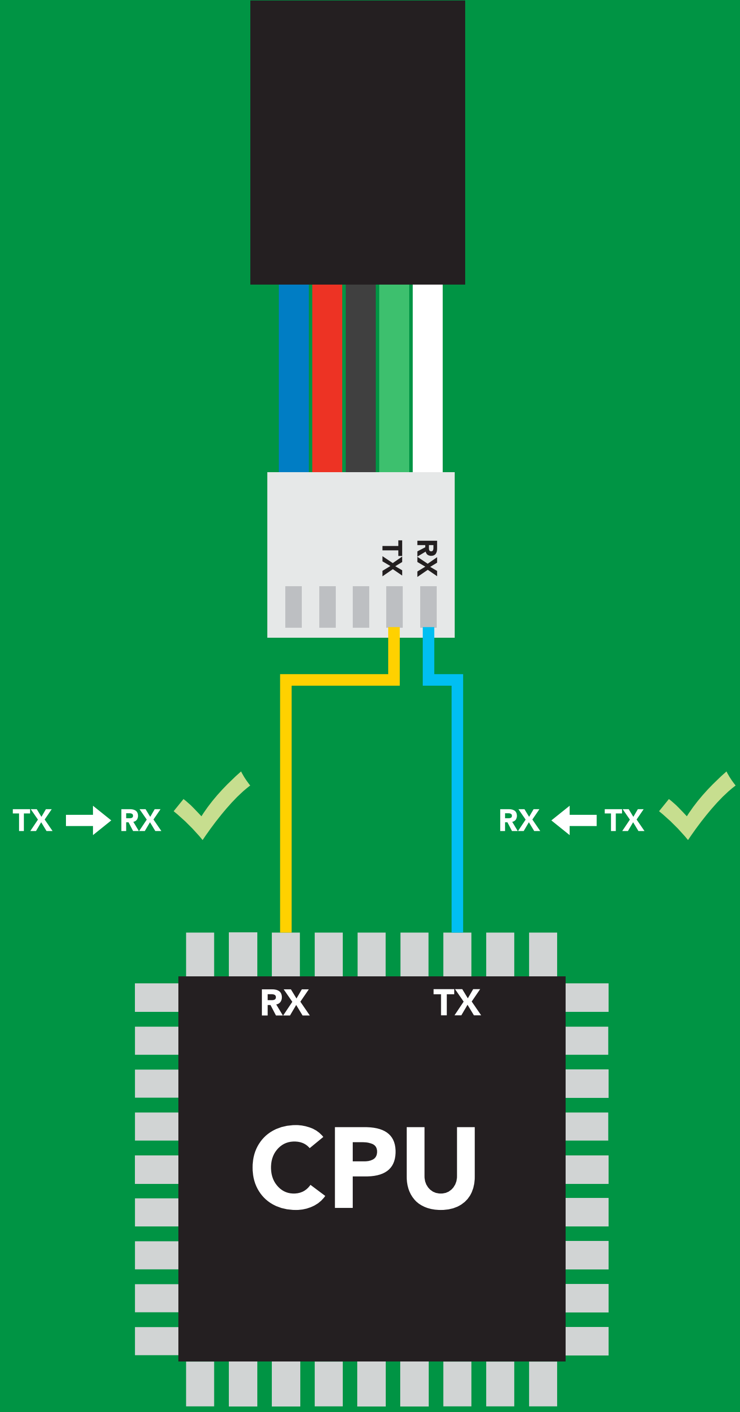
RX
Data in



TX
Data out

Vcc 3.3V – 5V





Data format

Reading	Humidity Air Temperature Dew point
Units	% Relative humidity Air Temperature °C *(when enabled)* Dew point Temperature °C *(when enabled)*
Encoding	ASCII (CSV string if temp/ dew point enabled)
Terminator	carriage return

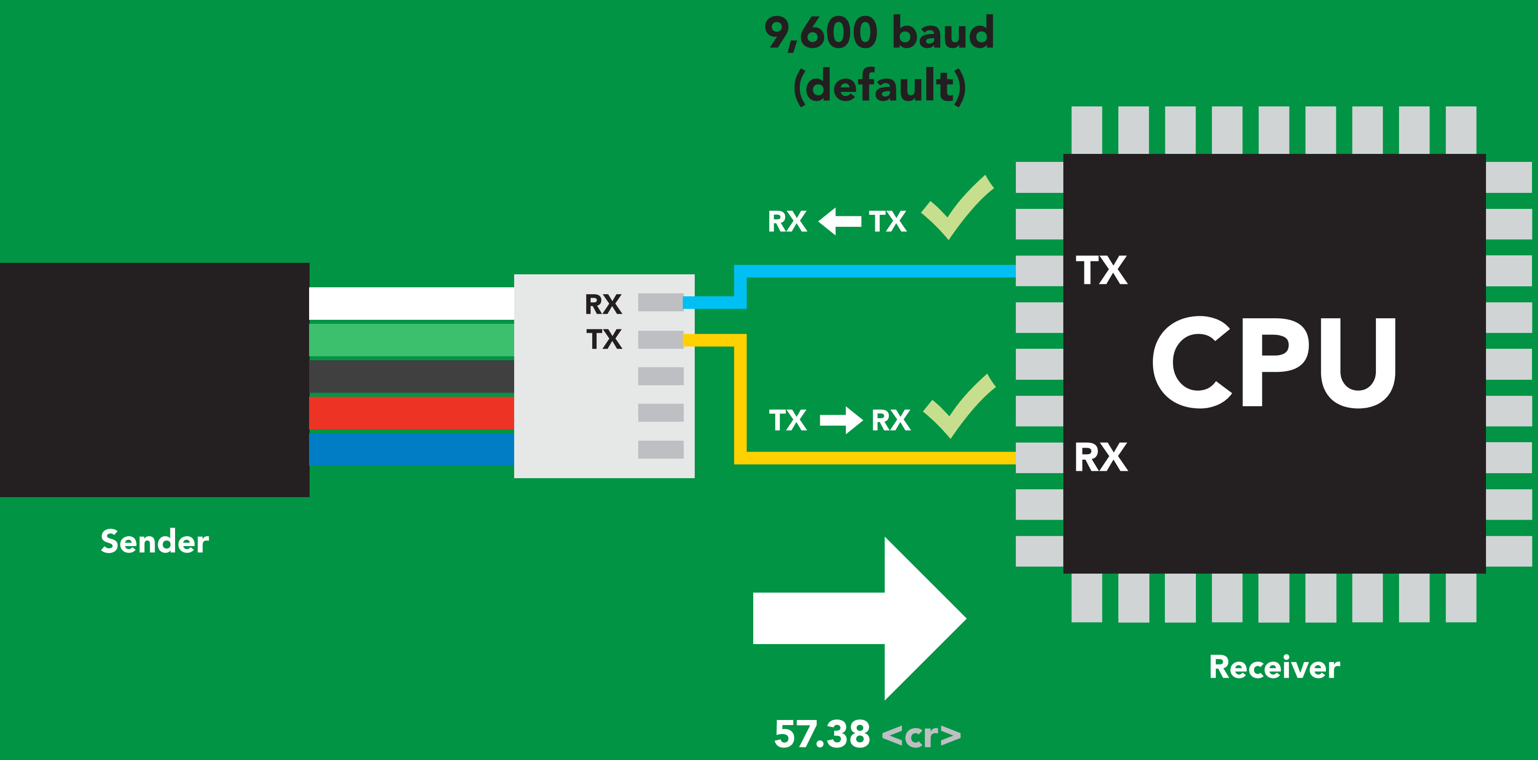
Data type	floating point
Decimal places	2
Smallest string	4 characters
Largest string	22 characters

Receiving data from device

2 parts

ASCII data string — Command

Carriage return <cr> — Terminator



Advanced

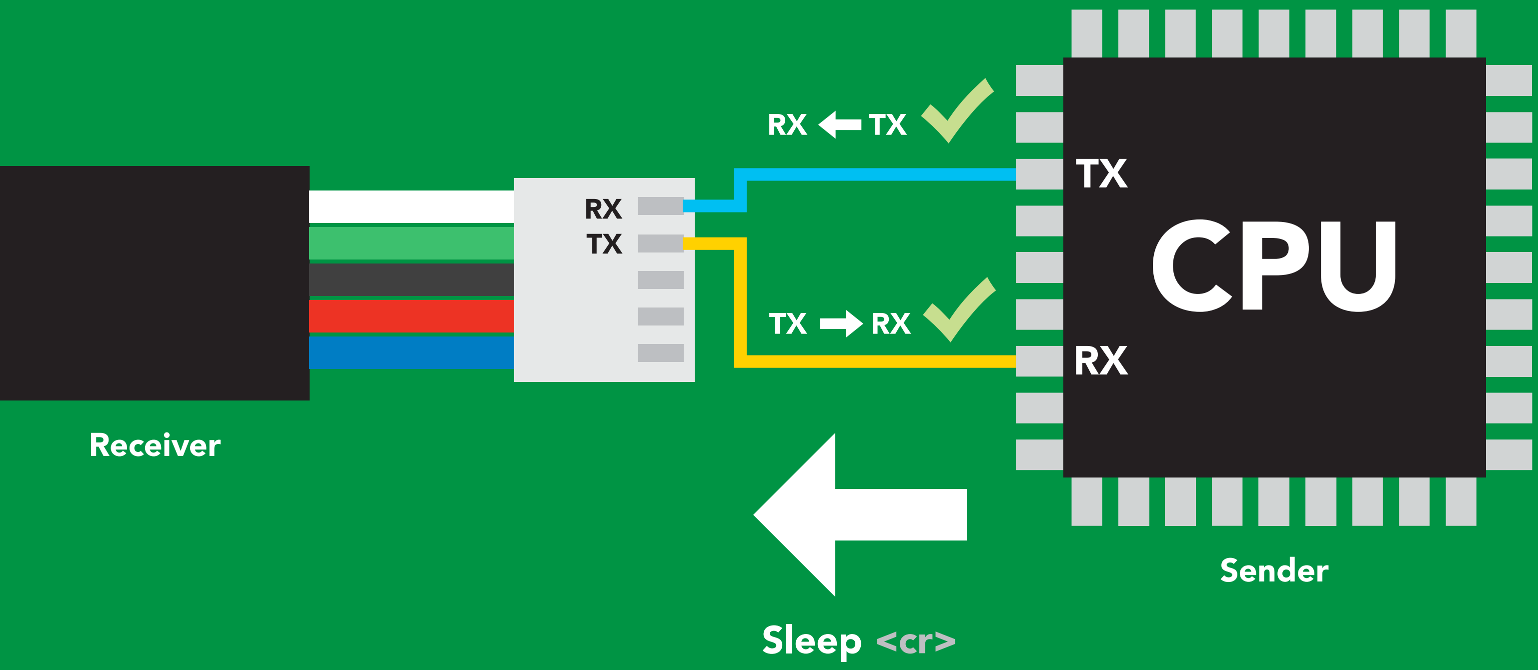
ASCII:	5	7	.	3	8	<cr>
Hex:	35	37	2E	33	38	0D
Dec:	53	55	46	51	56	13

Sending commands to device

2 parts

Command (not case sensitive) — ASCII data string

Carriage return <cr> — Terminator



Advanced

ASCII:	S	l	e	e	p	<cr>
Hex:	53	6C	65	65	70	0D
Dec:	83	108	101	101	112	13

Indicator LED definition

Green	UART standby
Cyan	Taking reading
Purple	Changing I²C address
Red	Command not understood
White	Find

	LED ON
5V	**+0.2 mA**
3.3V	**+0.2 mA**

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r 0.1

UART mode

command quick reference

All commands are ASCII strings or single ASCII characters.

Command	Function		Default state
Auto	enable/disable auto monitor	pg. 18	disabled
Baud	change baud rate	pg. 25	9,600
C	enable/disable continuous mode	pg. 16	enabled
Factory	enable factory reset	pg. 27	n/a
Find	finds device with blinking white LED	pg. 15	n/a
i	device information	pg. 21	n/a
I2C	change to I²C mode	pg. 28	not set
L	enable/disable LED	pg. 14	enabled
Name	set/show name of device	pg. 20	not set
O	enable/disable parameters	pg. 19	HUM
Plock	enable/disable protocol lock	pg. 26	n/a
R	returns a single reading	pg. 17	n/a
Sleep	enter sleep mode/low power	pg. 24	n/a
Status	Retrieve status information	pg. 23	n/a
*OK	enable/disable response codes	pg. 22	n/a

LED control

Command syntax

L,1 <cr> **LED on** **default**

L,0 <cr> **LED off**

L,? <cr> **LED state on/off?**

Example	Response
L,1 <cr>	*OK <cr>
L,0 <cr>	*OK <cr>
L,? <cr>	?L,1 <cr> or ?L,0 <cr> *OK <cr>

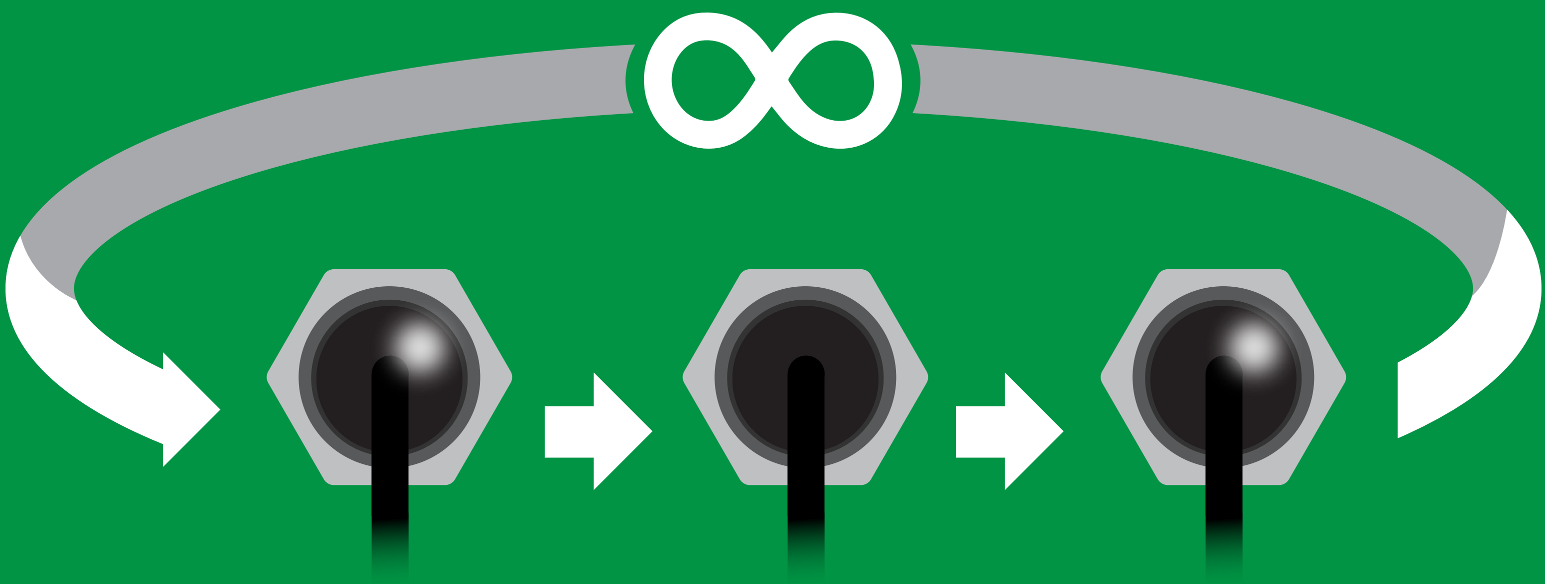
Find

Command syntax

This command will disable continuous mode
Send any character or command to terminate find.

Find	<cr>	**LED rapidly blinks white, used to help find device**

Example	Response
Find <cr>	***OK** <cr>



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Continuous mode

Command syntax

C,1	<cr>	enable continuous readings once per second	default
C,n	<cr>	continuous readings every n seconds (n = 2 to 99 sec)	
C,0	<cr>	disable continuous readings	
C,?	<cr>	continuous mode settings	

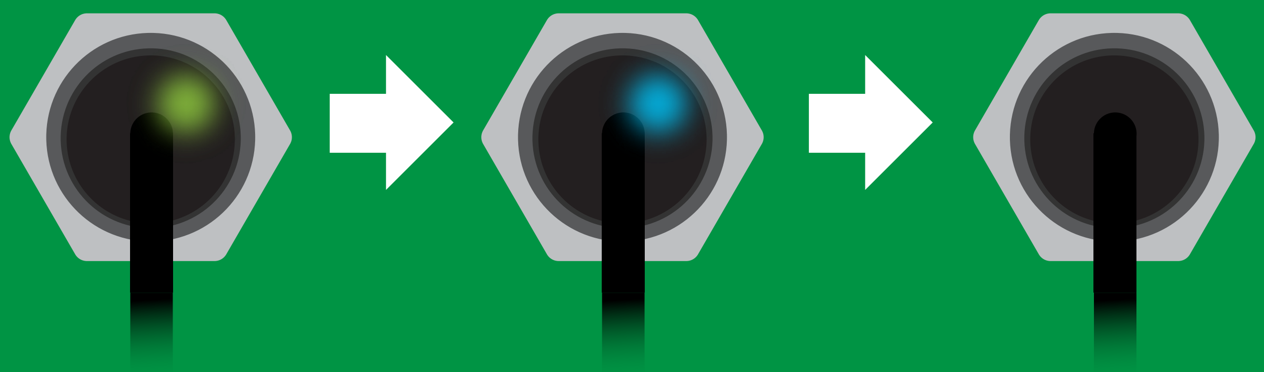
Example	Response
C,1 <cr>	*OK <cr> HUM (1 sec) <cr> HUM (2 sec) <cr> HUM (n sec) <cr>
C,30 <cr>	*OK <cr> HUM (30 sec) <cr> HUM (60 sec) <cr> HUM (90 sec) <cr>
C,0 <cr>	*OK <cr>
C,? <cr>	?C,1 <cr> or ?C,0 <cr> or ?C,30 <cr> *OK <cr>

Single reading mode

Command syntax

R <cr> **takes single reading**

Example	Response
R <cr>	57.38 <cr> *OK <cr>



Green
Standby

Cyan
Taking reading

Transmitting

1 second

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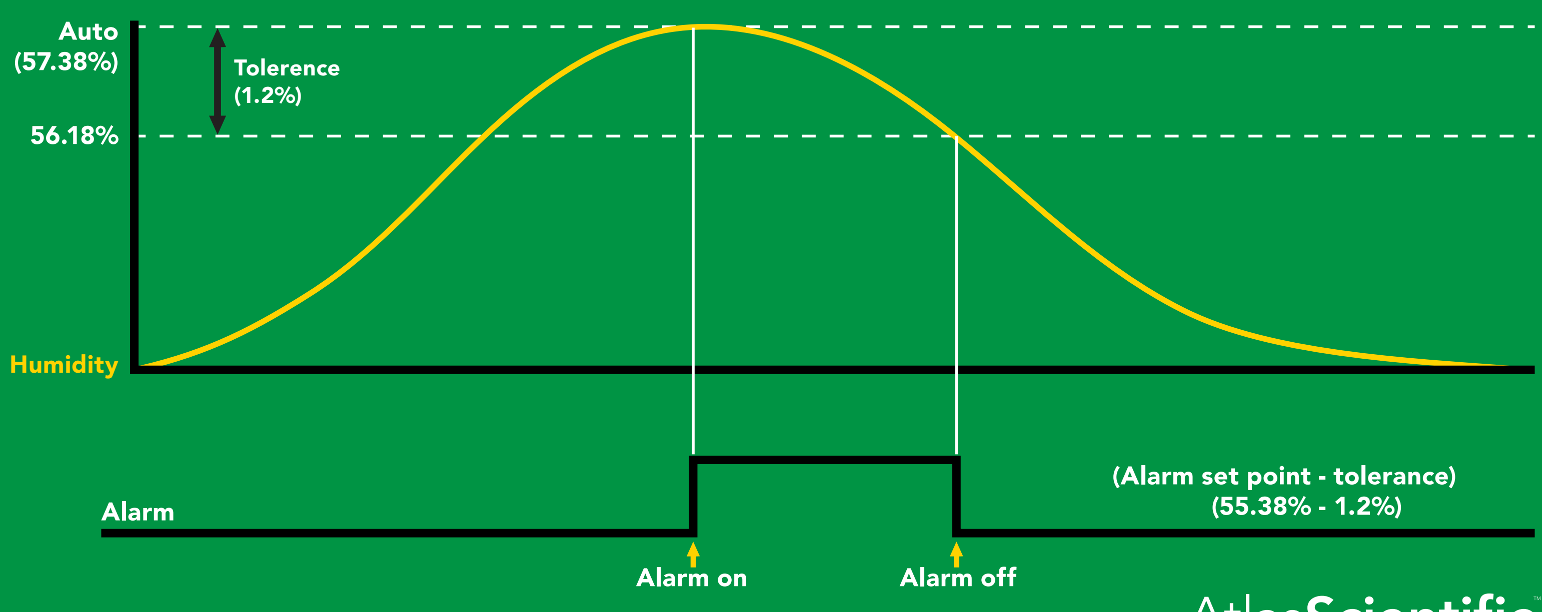
Auto monitor

When enabled, the sensor will continuously monitor the readings and set the auto monitor pin high when your value has been reached. When Auto Monitor is enabled, it is not necessary to actively take readings (continuous mode can be disabled).

Command syntax

Auto,en, [0,1,2]	<cr>	0 = disable, 1= Enable for humidity, 2= Enable for dew point
Auto,n	<cr>	The value that will set the alarm pin
Auto,tol,n	<cr>	The value that will reset the alarm pin
Auto,?	<cr>	Auto monitor settings

Example	Response
Auto,en,1 <cr>	*OK <cr> Enable humidity automonitoring
Auto,57.38 <cr>	*OK <cr> Set alarm to go off at 57.38% humidity
Auto,tol,1.2 <cr>	*OK <cr> The humidity must fall 1.2 percentage points below set point for alarm to reset.
Auto,? <cr>	?,auto,57.38,1.20,1 <cr> if all are enabled



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Enable/disable parameters from output string

Command syntax

O, [parameter],[1,0]	<cr>	enable or disable output parameter
O,?	<cr>	enabled parameter?

Example	Response
O,HUM,1 / O,HUM,0 <cr>	*OK <cr> enable / disable humidity
O,T,1 / O,T,0 <cr>	*OK <cr> enable / disable temperature
O,Dew,1 / O,Dew,0 <cr>	*OK <cr> enable / disable dew point
O,? <cr>	?,O,HUM,T,Dew <cr> if all enabled

Parameters

Hum	Humidity
T	Air temperature in °C
Dew	Dew point

Followed by 1 or 0

1	enabled
0	disabled

* If you disable all possible data types your readings will display "no output".

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Naming device

Command syntax

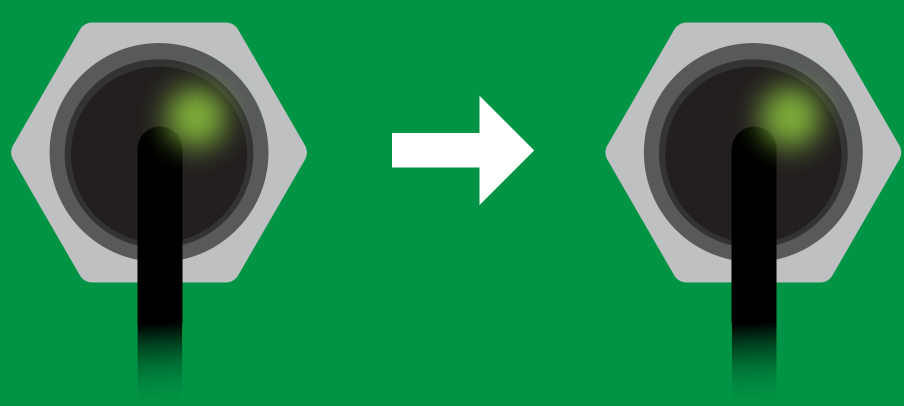
Do not use spaces in the name

Name,n	<cr>	set name
Name,	<cr>	clears name
Name,?	<cr>	show name

n = _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Up to 16 ASCII characters

Example	Response
Name, <cr>	*OK <cr> name has been cleared
Name,zzt <cr>	*OK <cr>
Name,? <cr>	?Name,zzt <cr> *OK <cr>



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Device information

Command syntax

i <cr> **device information**

Example	Response
i <cr>	?i,HUM,1.0 <cr> *OK <cr>

Response breakdown

?i, HUM, 1.0

Device Firmware

Response codes

Command syntax

*OK,1 <cr>	enable response	default
*OK,0 <cr>	disable response	
*OK,? <cr>	response on/off?	

Example	Response
R <cr>	57.38 <cr> *OK <cr>
*OK,0 <cr>	no response, *OK disabled
R <cr>	57.38 <cr> *OK disabled
*OK,? <cr>	?*OK,1 <cr> or ?*OK,0 <cr>

Other response codes

*ER	unknown command
*OV	over volt (VCC>=5.5V)
*UV	under volt (VCC<=3.1V)
*RS	reset
*RE	boot up complete, ready
*SL	entering sleep mode
*WA	wake up

These response codes cannot be disabled

Reading device status

Command syntax

Status	<cr>	voltage at Vcc pin and reason for last restart

Example	Response
Status <cr>	**?Status,P,5.038** <cr> ***OK** <cr>

Response breakdown

?Status,	P,	5.038
	Reason for restart	Voltage at Vcc

Restart codes

P	powered off
S	software reset
B	brown out
W	watchdog
U	unknown

Sleep mode/low power

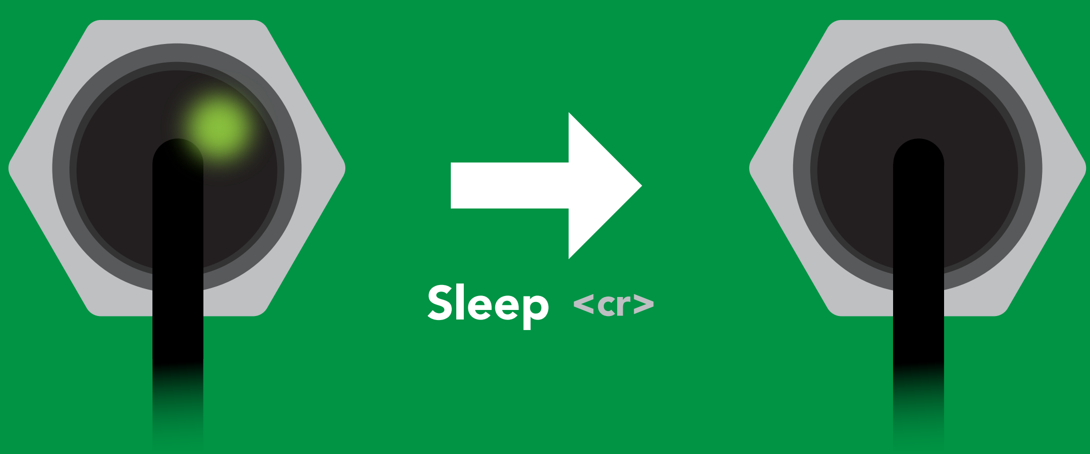
Command syntax

Send any character or command to awaken device.

Sleep <cr> enter sleep mode/low power

Example	Response
Sleep <cr>	*OK <cr> *SL <cr>
Any command	*WA <cr> wakes up device

	MAX	SLEEP
5V	2.6 mA	0.5 mA
3.3V	2.2 mA	0.4 mA



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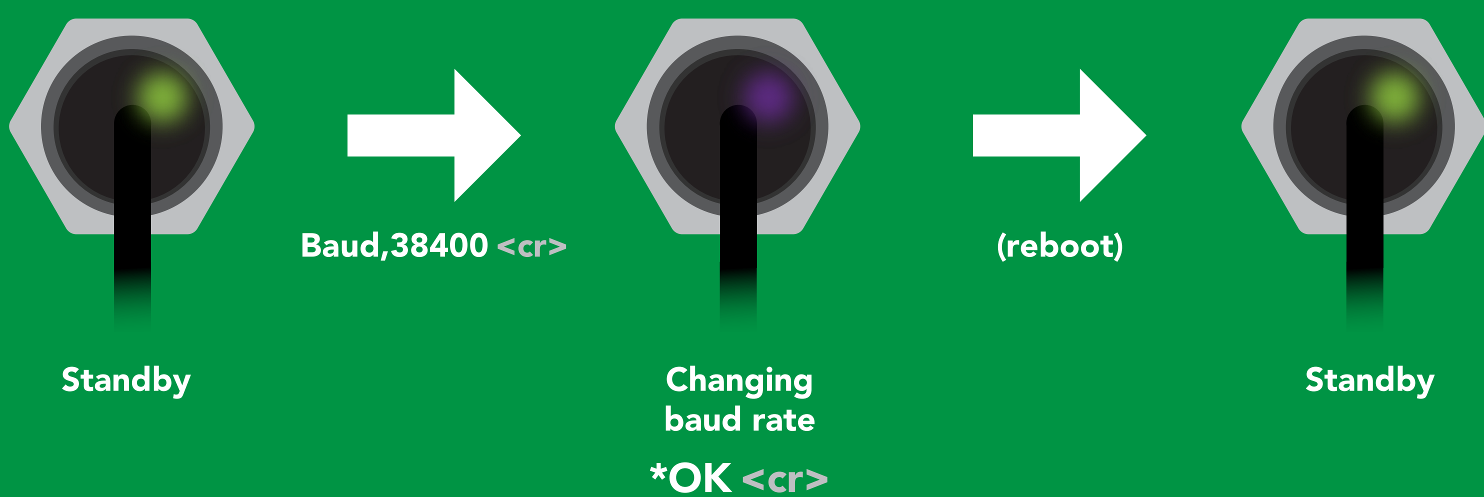
Change baud rate

Command syntax

Baud,n <cr> **change baud rate**

Example	Response
Baud,38400 <cr>	*OK <cr>
Baud,? <cr>	?Baud,38400 <cr> *OK <cr>

n =
- 300
- 1200
- 2400
- **9600 default**
- 19200
- 38400
- 57600
- 115200



Protocol lock

Command syntax

Locks device to UART mode.

Plock,1 <cr> enable Plock

Plock,0 <cr> disable Plock **default**

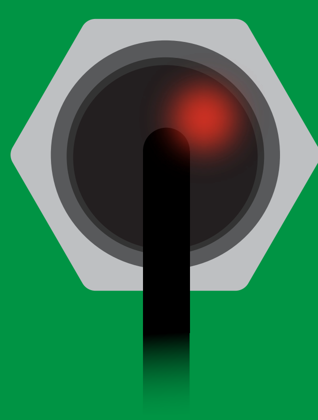
Plock,? <cr> Plock on/off?

Example	Response
Plock,1 <cr>	*OK <cr>
Plock,0 <cr>	*OK <cr>
Plock,? <cr>	?Plock,1 <cr> or ?Plock,0 <cr>

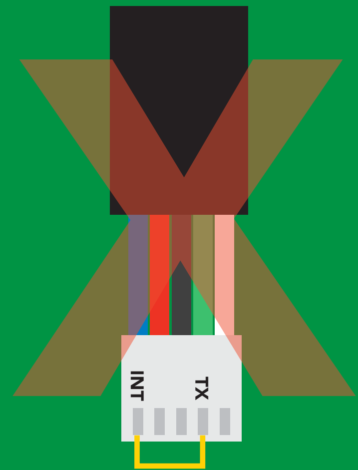
Plock,1

*OK <cr>

I2C,100



cannot change to I²C
*ER <cr>



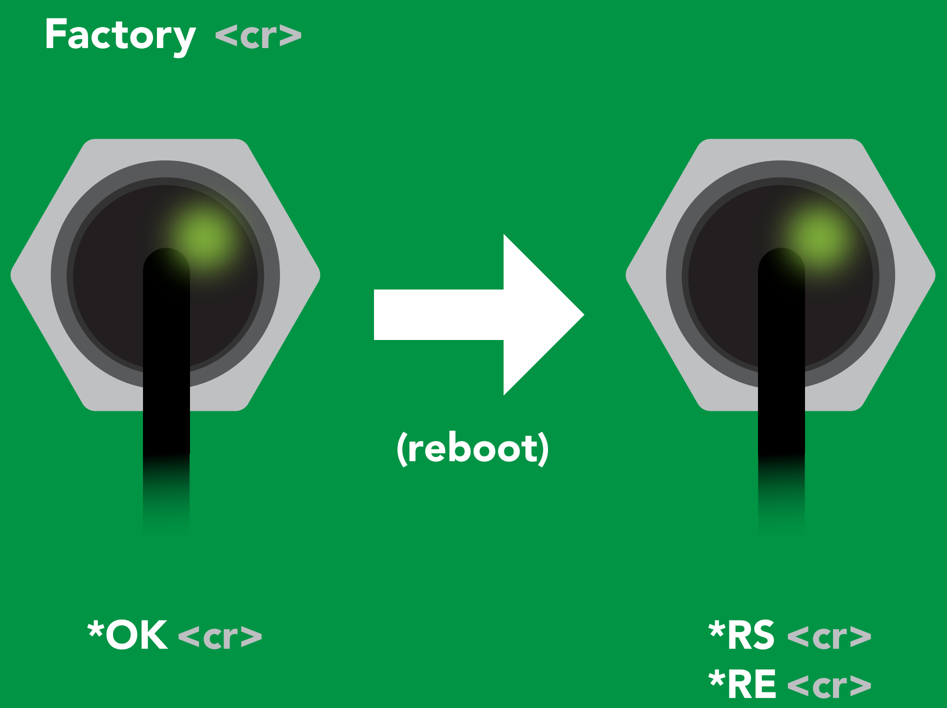
cannot change to I²C

Factory reset

Command syntax

Factory	<cr>	**enable factory reset**

Example	Response
Factory <cr>	*OK <cr>



Baud rate will not change

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Change to I^{2}C mode

Command syntax

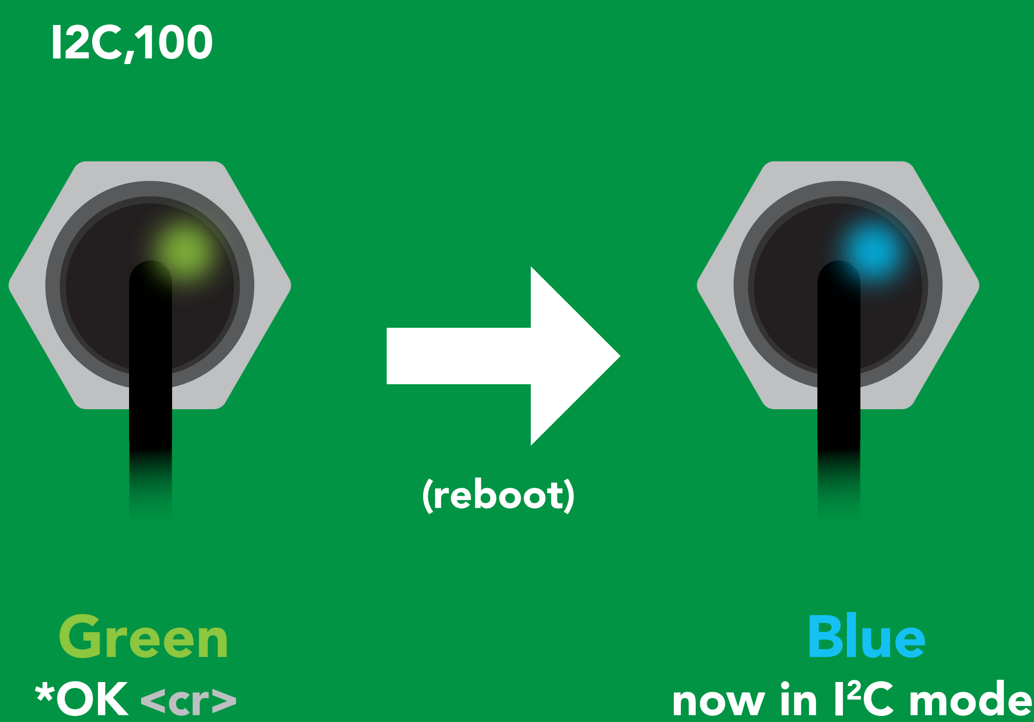
Default I^{2}C address 111 (0x6F)

I2C,n <cr> sets I^{2}C address and reboots into I^{2}C mode

n = any number 1 – 127

Example	Response
I2C,100 <cr>	*OK (reboot in I^{2}C mode)

Wrong example	Response
I2C,139 <cr> n ≯ 127	*ER <cr>



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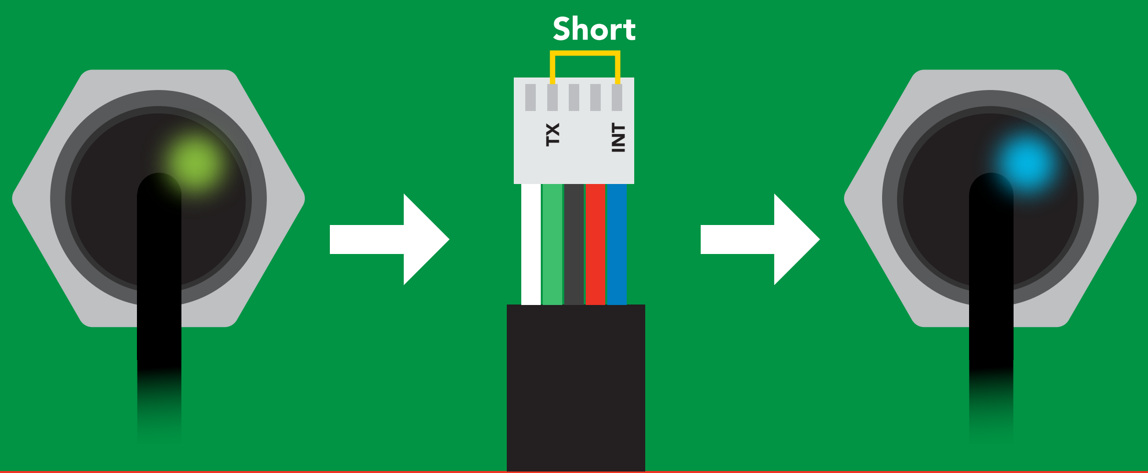
Manual switching to I^2C

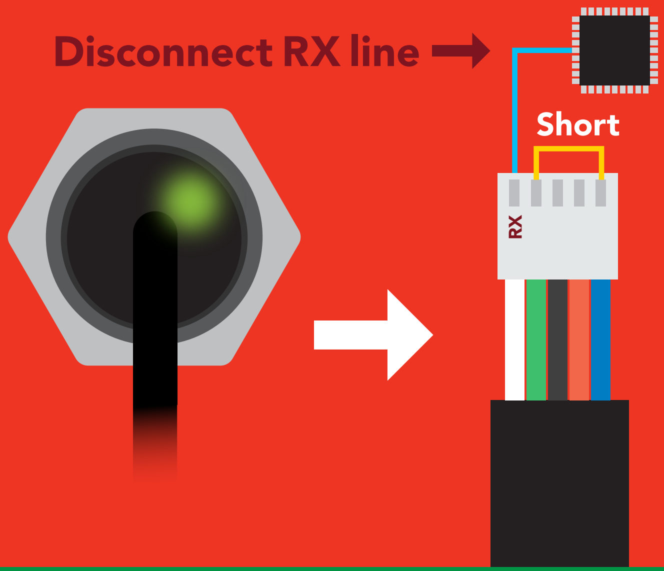
- Disconnect ground (power off)
- Disconnect TX and RX
- Connect TX to INT
- Confirm RX is disconnected
- Connect ground (power on)
- Wait for LED to change from Green to Blue
- Disconnect ground (power off)
- Reconnect all data and power

Manually switching to I^2C will set the I^2C address to 111 (0x6F)

Example



Wrong Example



I^{2}C mode

The I^{2}C protocol is *considerably more complex* than the UART (RS–232) protocol. Atlas Scientific assumes the embedded systems engineer understands this protocol.

To set your EZO™ device into I^{2}C mode click here

Settings that are retained if power is cut

Calibration
Change I^{2}C address
Hardware switch to UART mode
LED control
Protocol lock
Software switch to UART mode

Settings that are *NOT* retained if power is cut

Sleep mode

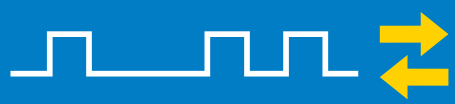
I²C mode

I²C address (0x01 – 0x7F)
111 (0x6F) default

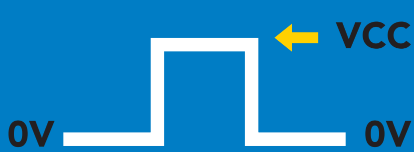
Vcc 3.3V – 5.5V

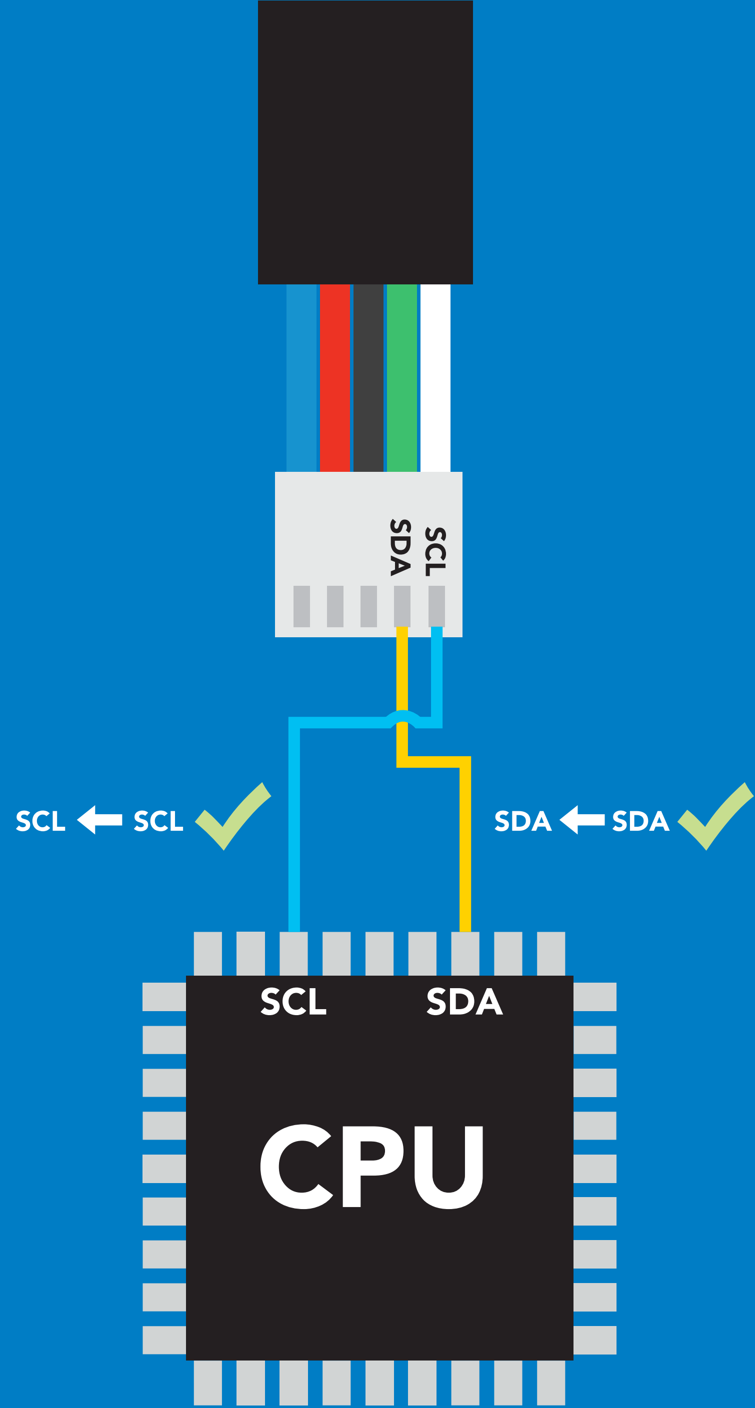
Clock speed 100 – 400 kHz

SDA



SCL





Data format

Reading	Humidity Air Temperature Dew point
Units	% Relative humidity Air Temperature °C *(when enabled)* Dew point Temperature °C *(when enabled)*
Encoding	ASCII (CSV string if temp/ dew point enabled)

Data type	floating point
Decimal places	2
Smallest string	4 characters
Largest string	22 characters

Sending commands to device

5 parts

Start | I²C address | Write | Command (not case sensitive) | Stop

I²C address: 111 (0x6F)

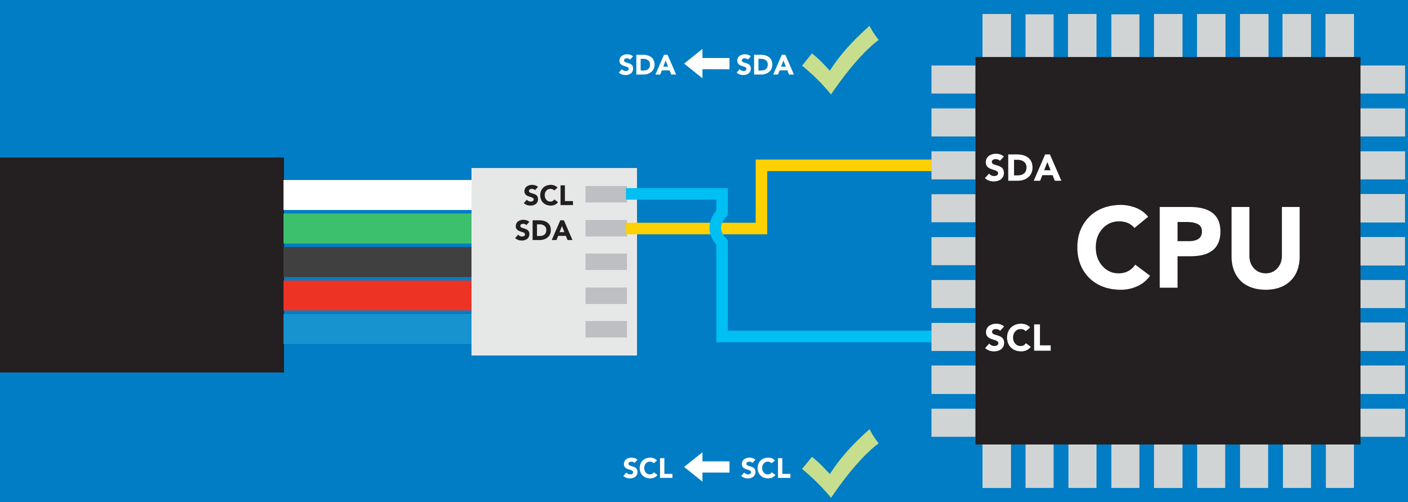
Command: ASCII command string

Example

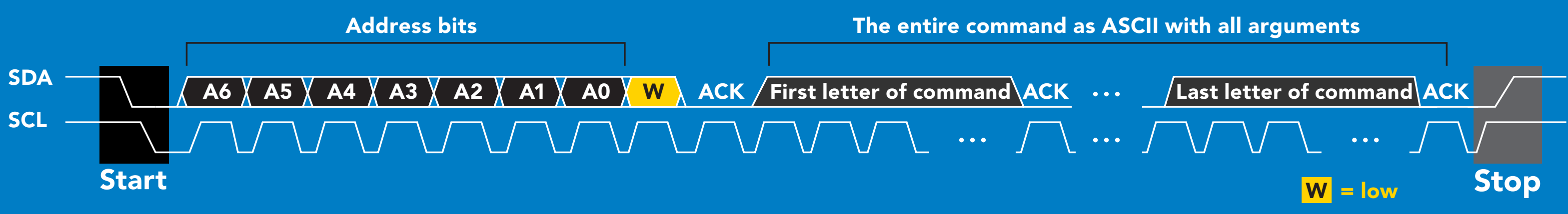
Start | 111 (0x6F) | Write | Sleep | Stop

111 (0x6F): I²C address

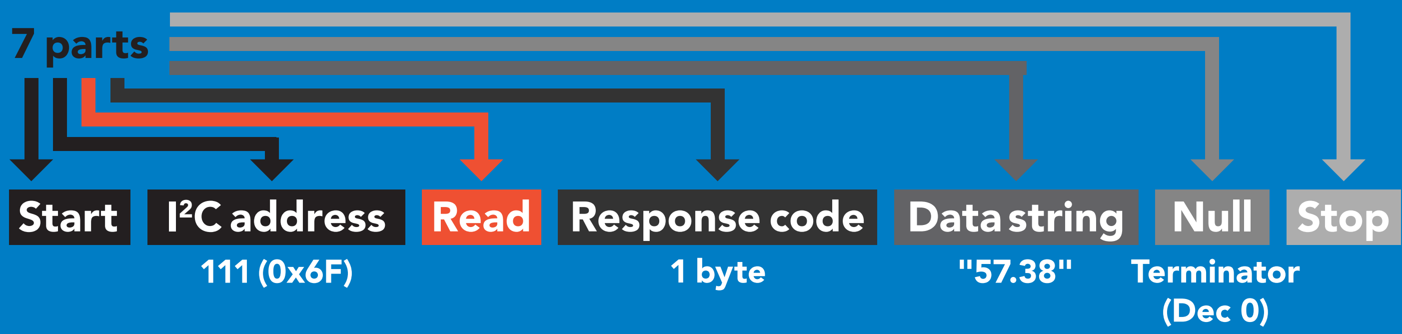
Sleep: Command

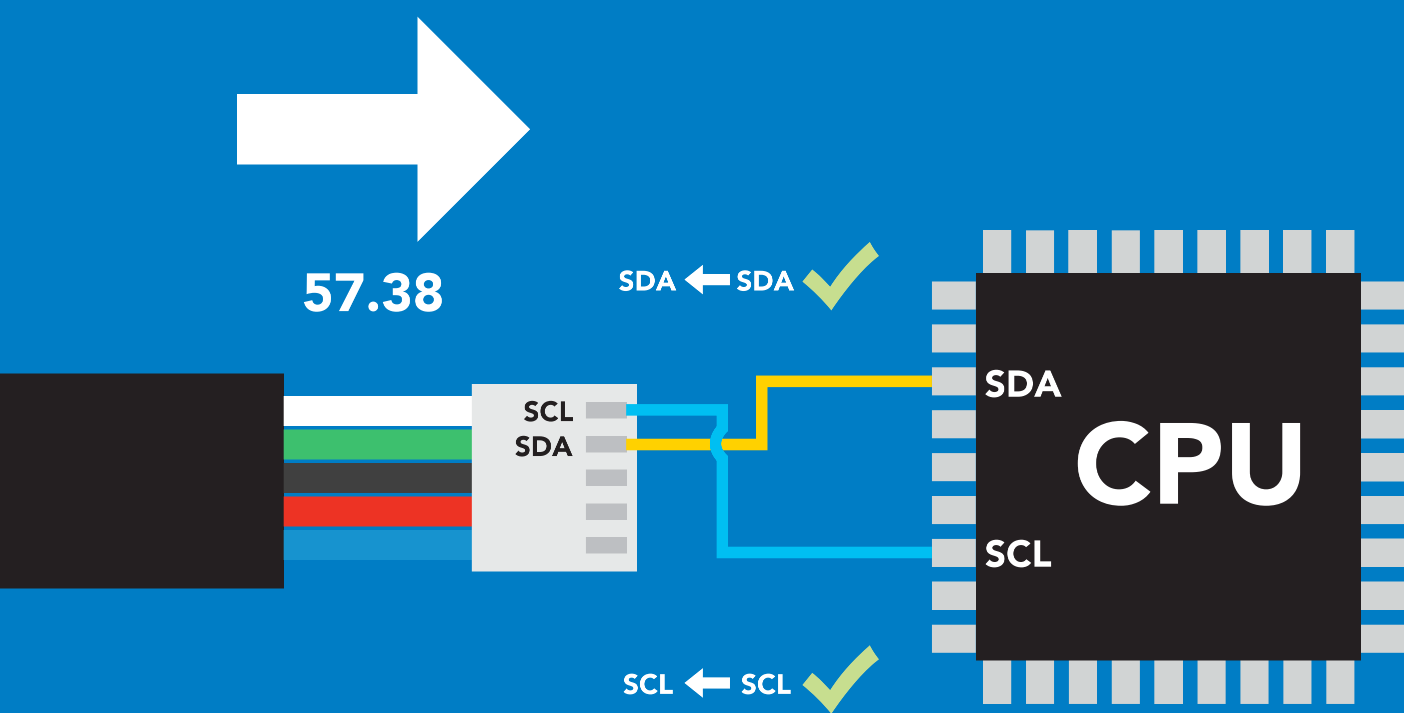


Advanced

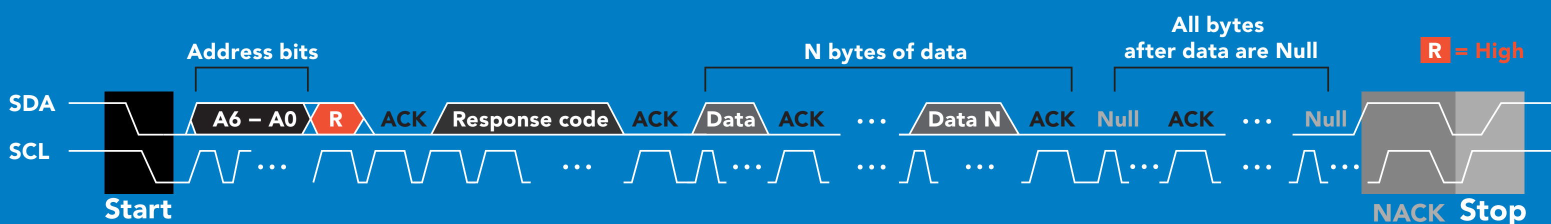


Requesting data from device





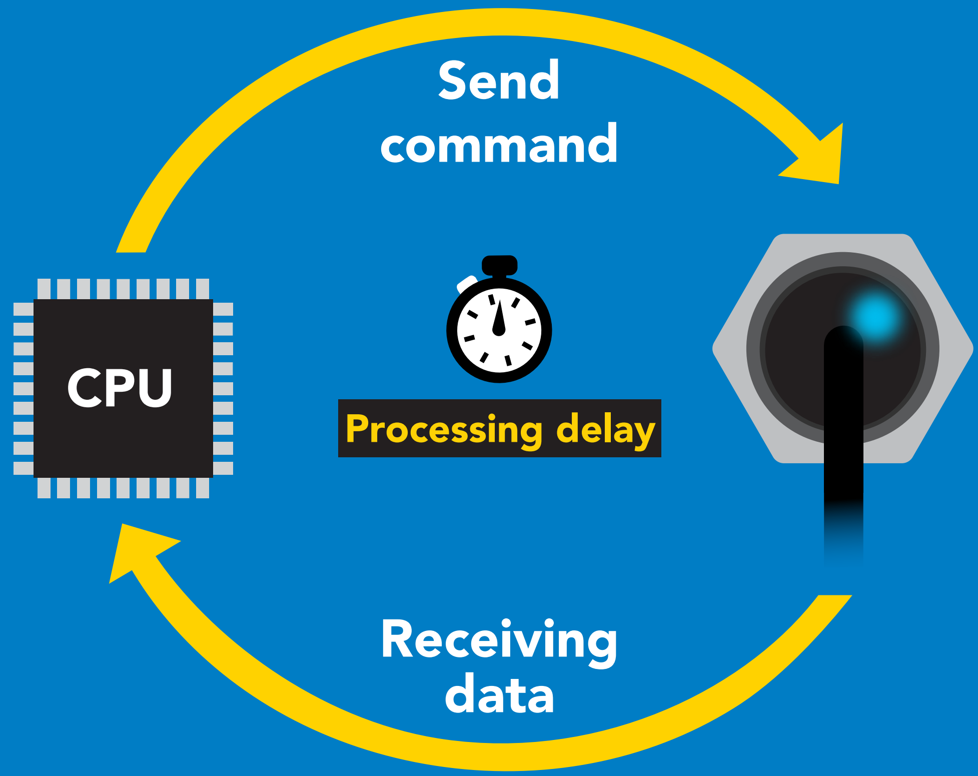
Advanced



Response codes & processing delay

After a command has been issued, a 1 byte response code can be read in order to confirm that the command was processed successfully.

Reading back the response code is completely optional, and is not required for normal operation.



Example

```
I2C_start;
I2C_address;
I2C_write(EZO_command);
I2C_stop;

delay(300);        Processing delay

I2C_start;
I2C_address;
Char[ ] = I2C_read;
I2C_stop;
```

If there is no processing delay or the processing delay is too short, the response code will always be 254.

Response codes

Single byte, not string

255	no data to send
254	still processing, not ready
2	syntax error
1	successful request

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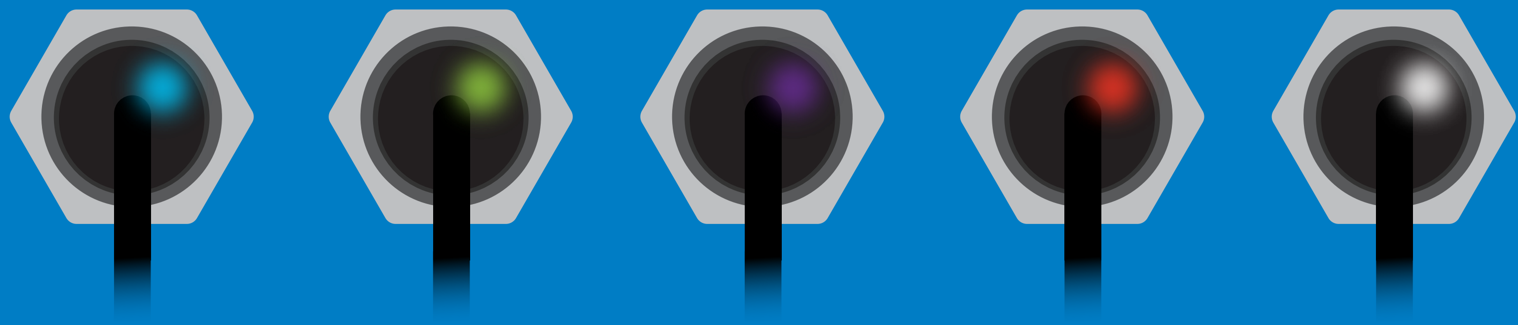
r 0.2

Indicator LED control



Blue
I²C standby

Green
Taking reading

Purple
Changing I²C address

Red
Command not understood

White
Find

5V	+0.2 mA
3.3V	+0.2 mA

I²C mode
command quick reference

All commands are ASCII strings or single ASCII characters.

Command	Function	
Auto	enable/disable auto monitor	pg. 40
Baud	switch back to UART mode	pg. 49
Factory	enable factory reset	pg. 48
Find	finds device with blinking white LED	pg. 38
i	device information	pg. 43
I2C	change I²C address	pg. 47
L	enable/disable LED	pg. 37
Name	set/show name of device	pg. 42
O	enable/disable parameters	pg. 41
Plock	enable/disable protocol lock	pg. 46
R	returns a single reading	pg. 39
Sleep	enter sleep mode/low power	pg. 45
Status	retrieve status information	pg. 44

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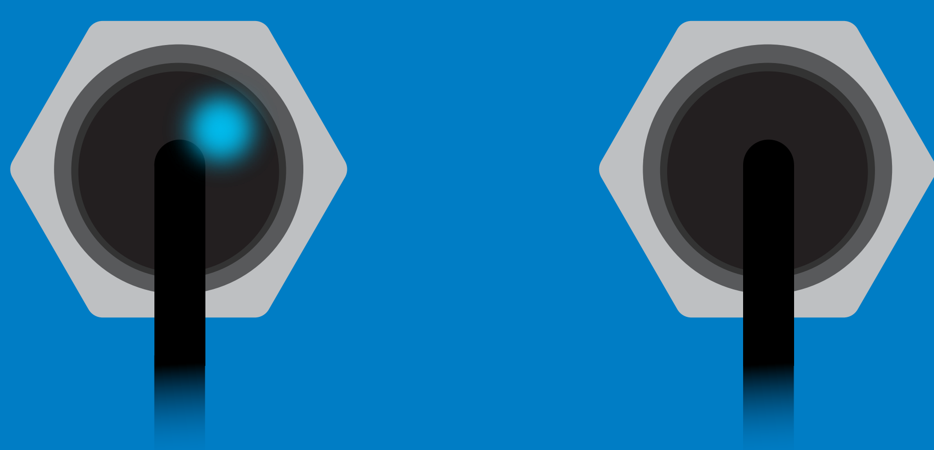
LED control

Command syntax

300ms processing delay

L,1	LED on	default
L,0	LED off	
L,?	LED state on/off?	

Example	Response
L,1	Wait 300ms → 1 (Dec) 0 (Null)
L,0	Wait 300ms → 1 (Dec) 0 (Null)
L,?	Wait 300ms → 1 (Dec) ?L,1 (ASCII) 0 (Null) or Wait 300ms → 1 (Dec) ?L,0 (ASCII) 0 (Null)



L,1 L,0

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r 0.1

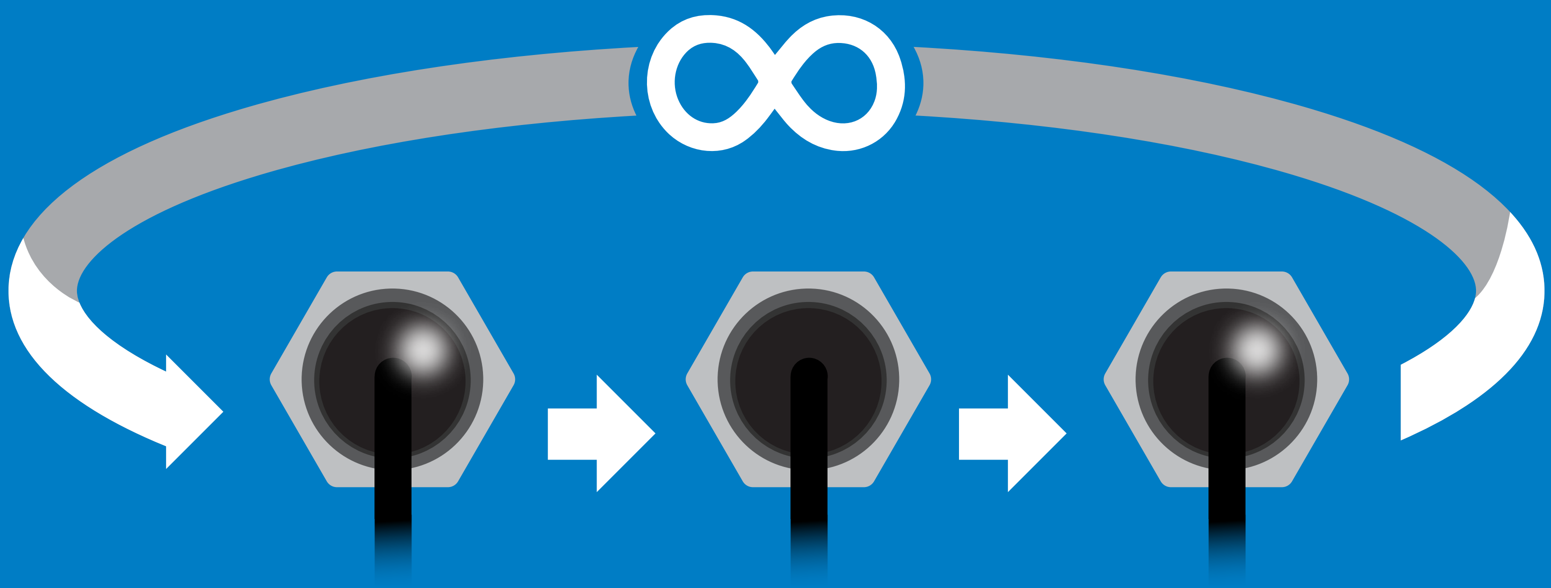
Find

Command syntax

300ms processing delay

Find	LED rapidly blinks white, used to help find device

Example	Response
Find	Wait 300ms 1 Dec 0 Null



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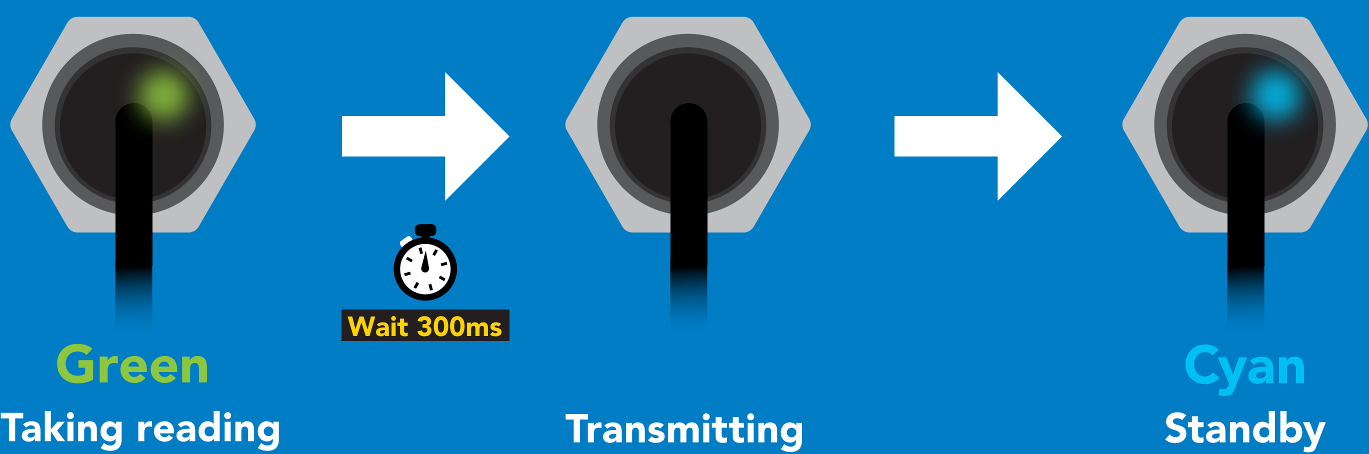
Taking reading

Command syntax

300ms processing delay

R	**return 1 reading**

Example	Response
R	Wait 300ms 1 (Dec) 57.38 (ASCII) 0 (Null)



Auto monitor

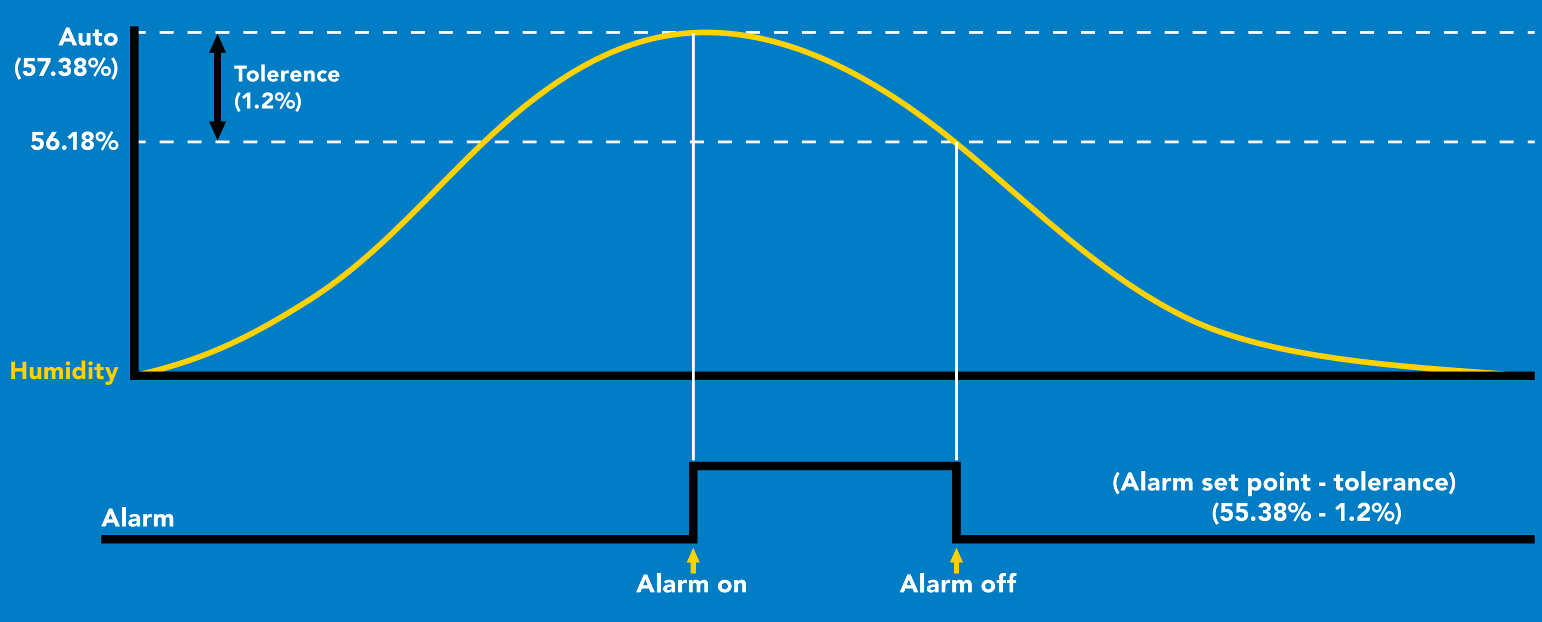
300ms processing delay

When enabled, the sensor will continuously monitor the readings and set the auto monitor pin high when your value has been reached. When Auto Monitor is enabled, it is not necessary to actively take readings (continuous mode can be disabled).

Command syntax

Auto,en, [0,1,2]	0 = disable, 1= Enable for humidity, 2= Enable for dew point
Auto,n	The value that will set the alarm pin
Auto,tol,n	The value that will reset the alarm pin
Auto,?	Auto monitor settings

Example	Response
Auto,en,1	Wait 300ms · 1 (Dec) · 0 (Null) · Enable humidity automonitoring
Auto,57.38	Wait 300ms · 1 (Dec) · 0 (Null) · Set alarm to go off at 55.38% humidity
Auto,tol,1.2	Wait 300ms · 1 (Dec) · 0 (Null) · The humidity must fall 1.2 percentage points below set point for alarm to reset.
Auto,?	Wait 300ms · 1 (Dec) · ?,auto,57.38,1.20,1 (ASCII) · 0 (Null) · if all are enabled



Enable/disable parameters from output string

Command syntax

O, [parameter],[1,0]	enable or disable output parameter
O,?	enabled parameter?

Example	Response
O,HUM,1 / O,HUM,0	Wait 300ms — 1 (Dec) 0 (Null) enable / disable humidity
O,T,1 / O,T,0	Wait 300ms — 1 (Dec) 0 (Null) enable / disable temperature
O,Dew,1 / O,Dew,0	Wait 300ms — 1 (Dec) 0 (Null) enable / disable dew point
O,?	Wait 300ms — 1 (Dec) ?,O,HUM,T,Dew (ASCII) 0 (Null) if all enabled

Parameters

Hum	Humidity
T	Air temperature in °C
Dew	Dew point

Followed by 1 or 0

1	enabled
0	disabled

*** If you disable all possible data types your readings will display "no output".**

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Naming device

300ms processing delay

Command syntax

Do not use spaces in the name

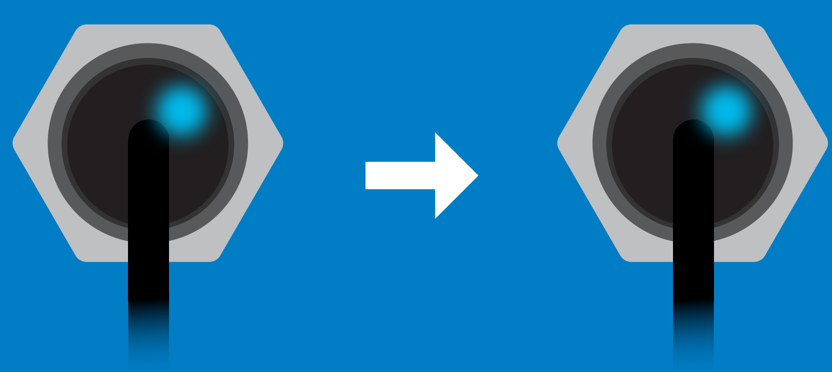
Name,n	set name
Name,	clears name
Name,?	show name

n = _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Up to 16 ASCII characters

Example	Response
Name,	Wait 300ms; 1 (Dec) 0 (Null) name has been cleared
Name,zzt	Wait 300ms; 1 (Dec) 0 (Null)
Name,?	Wait 300ms; 1 (Dec) ?Name,zzt (ASCII) 0 (Null)

Name,zzt   Name,?



1 0   1 ?Name,zzt 0

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Device information

Command syntax

300ms processing delay

i	device information

Example / Response

Example	Response
i	Wait 300ms · 1 (Dec) · ?i,HUM,1.0 (ASCII) · 0 (Null)

Response breakdown

?i, HUM, 1.0

HUM ↑ Device
1.0 ↑ Firmware

Reading device status

Command syntax

300ms processing delay

Status	voltage at Vcc pin and reason for last restart

Example	Response
Status	Wait 300ms · 1 (Dec) · ?Status,P,5.038 (ASCII) · 0 (Null)

Response breakdown

?Status, P, 5.038

P, → Reason for restart
5.038 → Voltage at Vcc

Restart codes

P	powered off
S	software reset
B	brown out
W	watchdog
U	unknown

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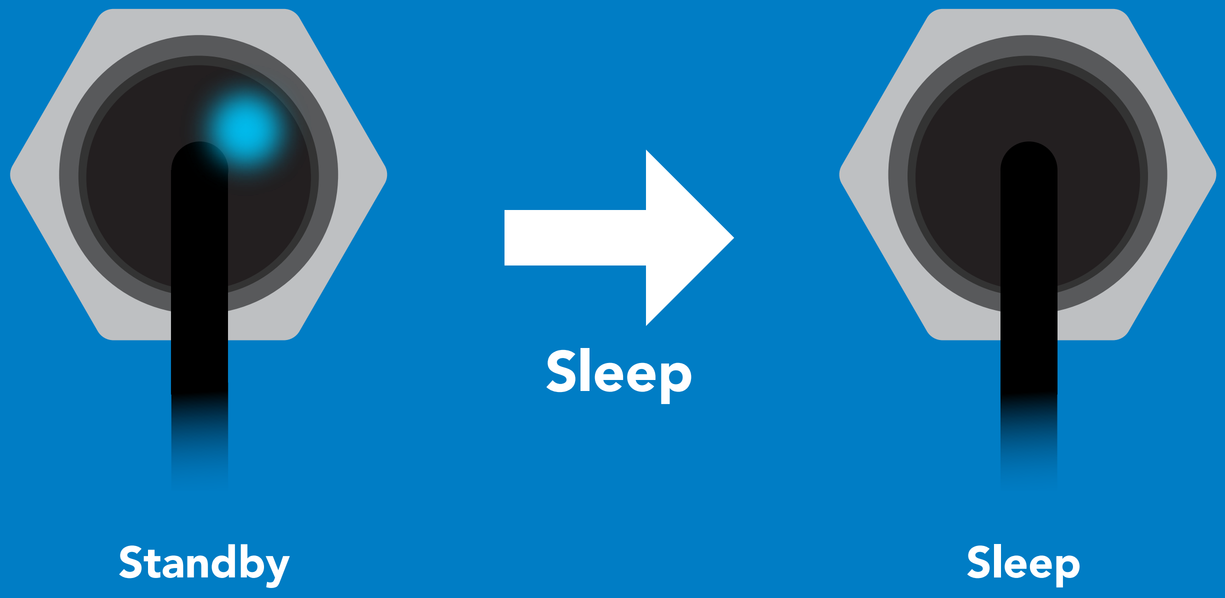
Sleep mode/low power

Command syntax

Sleep	**enter sleep mode/low power**	**Send any character or command to awaken device.**

Example	Response
Sleep	**no response** — **Do not read status byte after issuing sleep command.**
Any command	**wakes up device**

	MAX	SLEEP
5V	**2.6 mA**	**0.5 mA**
3.3V	**2.2 mA**	**0.4 mA**



Protocol lock

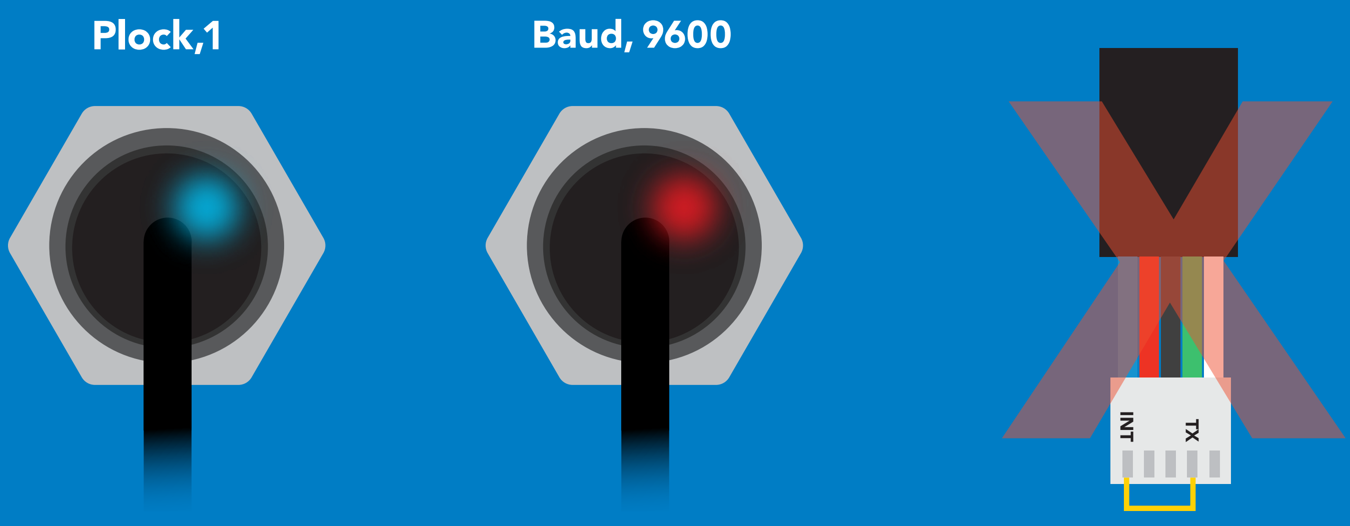
Command syntax

300ms processing delay

Plock,1	enable Plock	
Plock,0	disable Plock	default
Plock,?	Plock on/off?	

Locks device to I²C mode.

Example	Response
Plock,1	Wait 300ms 1 Dec 0 Null
Plock,0	Wait 300ms 1 Dec 0 Null
Plock,?	Wait 300ms 1 Dec ?Plock,1 ASCII 0 Null



cannot change to UART

cannot change to UART

I²C address change

Command syntax

I2C,n	sets I²C address and reboots into I²C mode

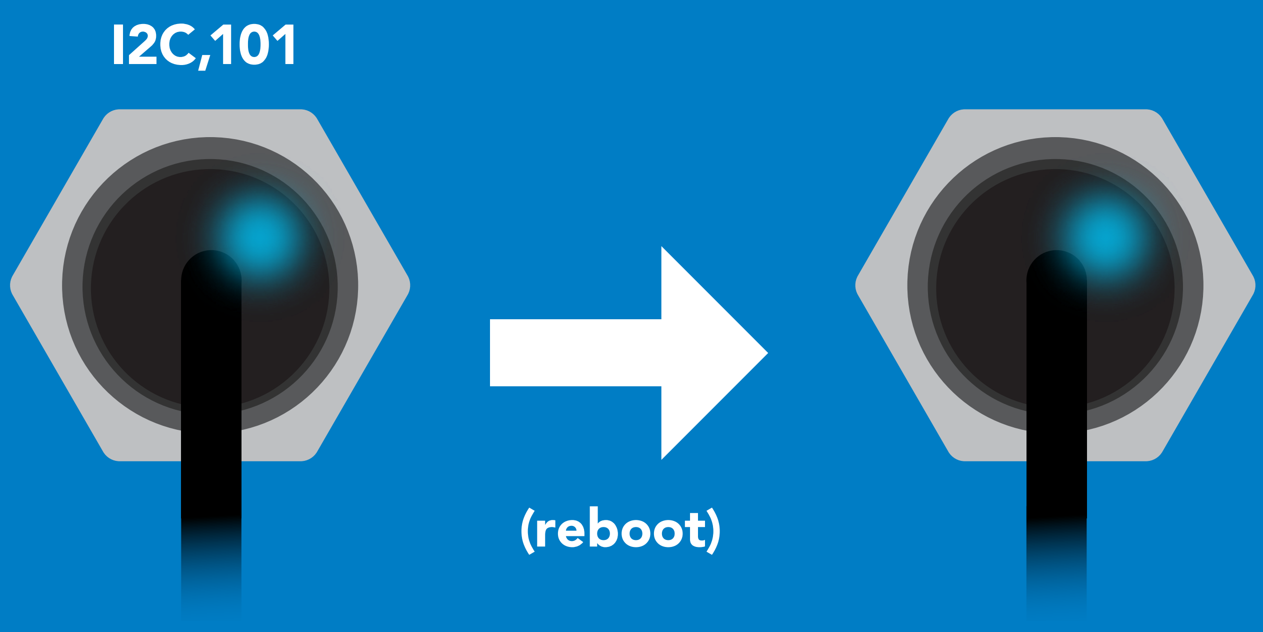
Example	Response
I2C,101	device reboot (no response given)

Warning!

Changing the I²C address will prevent communication between the circuit and the CPU until the CPU is updated with the new I²C address.

Default I²C address is 111 (0x6F).

n = any number 1 – 127



Factory reset

Command syntax

Factory reset will not take the device out of I²C mode.

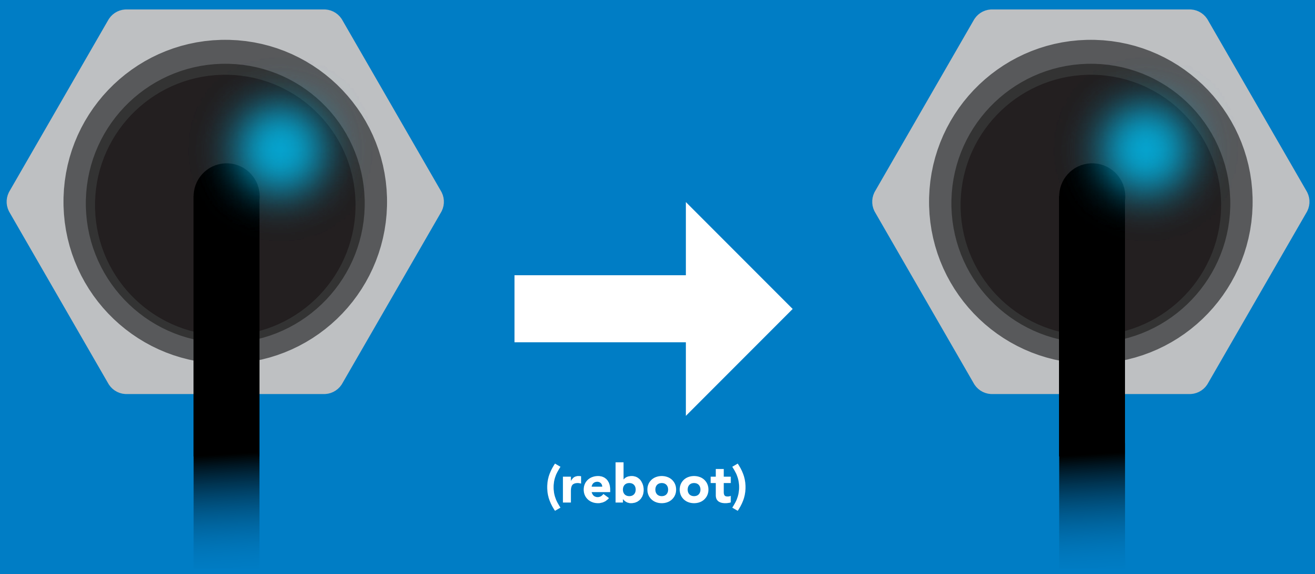
Factory	**enable factory reset**

I²C address will not change

Example	Response
Factory	device reboot (no response given)

Clears custom calibration
LED on
Response codes enabled

Factory



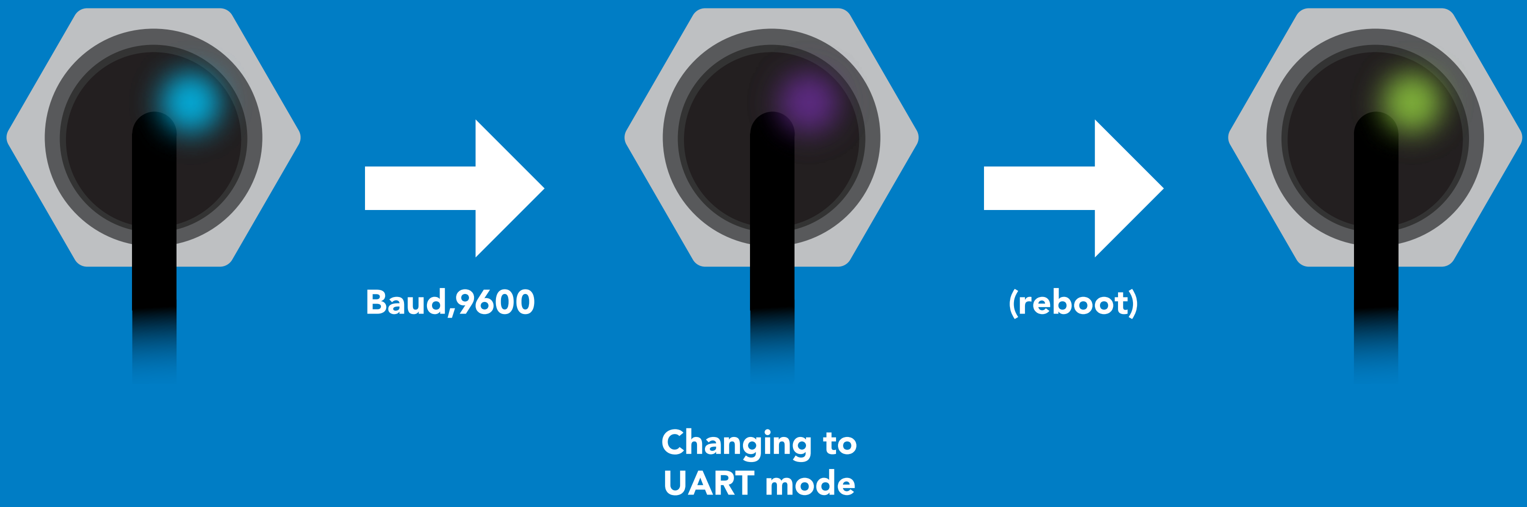
Change to UART mode

Command syntax

Baud,n	**switch from I^2C to UART**

Example	Response
Baud,9600	reboot in UART mode (no response given)

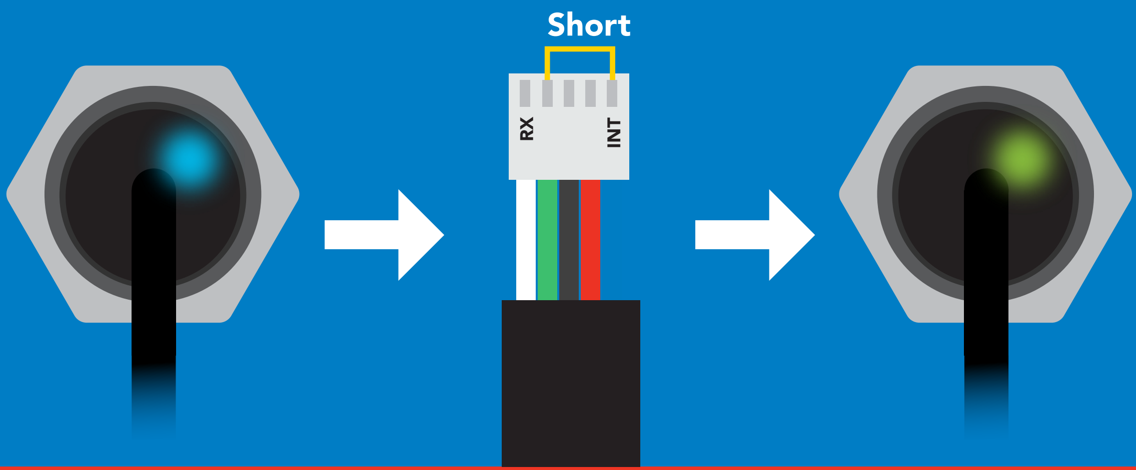
n =
- 300
- 1200
- 2400
- 9600
- 19200
- 38400
- 57600
- 115200



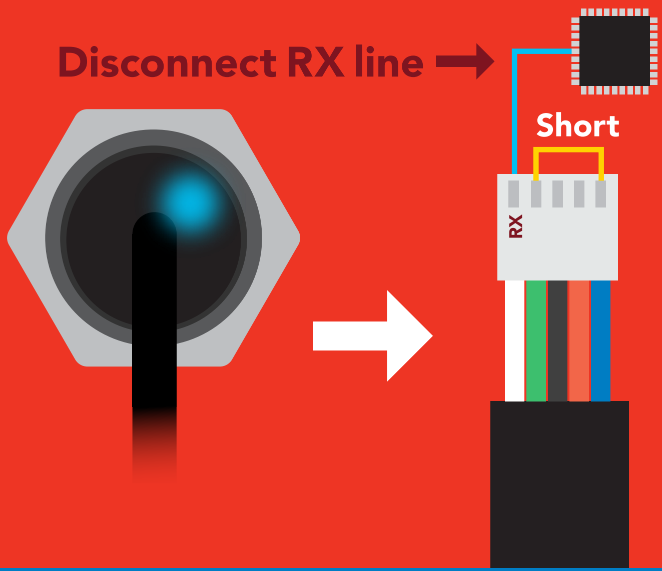
Manual switching to UART

- Disconnect ground (power off)
- Disconnect TX and RX
- Connect TX to INT
- Confirm RX is disconnected
- Connect ground (power on)
- Wait for LED to change from Blue to Green
- Disconnect ground (power off)
- Reconnect all data and power

Example



Wrong Example



Datasheet change log

Datasheet V 1.2

Revised naming device info on pages 20 & 42.

Datasheet V 1.1

Revised the information on pg 3.

Datasheet V 1.0

New datasheet

Firmware updates

V1.0 – Initial release (August 14, 2020)

Warranty

Atlas Scientific™ Warranties the EZO-HUM™ Embedded Humidity Sensor to be free of defect during the debugging phase of device implementation, or 30 days after receiving the EZO-HUM™ Embedded Humidity Sensor (which ever comes first).

The debugging phase

The debugging phase as defined by Atlas Scientific™ is the time period when the EZO-HUM™ Embedded Humidity Sensor is connected into a bread board, or shield. If the EZO-HUM™ Embedded Humidity Sensor is being debugged in a bread board, the bread board must be devoid of other components. If the EZO-HUM™ Embedded Humidity Sensor is being connected to a microcontroller, the microcontroller must be running code that has been designed to drive the EZO-HUM™ Embedded Humidity Sensor exclusively and output the EZO-HUM™ Embedded Humidity Sensor data as a serial string.

It is important for the embedded systems engineer to keep in mind that the following activities will void the EZO-HUM™ Embedded Humidity Sensor warranty:

- **Soldering any part to the EZO-HUM™ Embedded Humidity Sensor.**
- **Running any code, that does not exclusively drive the EZO-HUM™ Embedded Color Sensor and output its data in a serial string.**
- **Embedding the EZO-HUM™ Embedded Humidity Sensor into a custom made device.**
- **Removing any potting compound.**

Reasoning behind this warranty

Because Atlas Scientific™ does not sell consumer electronics; once the device has been embedded into a custom made system, Atlas Scientific™ cannot possibly warranty the EZO-HUM™ Embedded Humidity Sensor, against the thousands of possible variables that may cause the EZO-HUM™ Embedded Humidity Sensor to no longer function properly.

Please keep this in mind:

1. **All Atlas Scientific™ devices have been designed to be embedded into a custom made system by you, the embedded systems engineer.**

2. **All Atlas Scientific™ devices have been designed to run indefinitely without failure in the field.**

3. **All Atlas Scientific™ devices can be soldered into place, however you do so at your own risk.**

Atlas Scientific™ is simply stating that once the device is being used in your application, Atlas Scientific™ can no longer take responsibility for the EZO-HUM™ Embedded Humidity Sensor continued operation. This is because that would be equivalent to Atlas Scientific™ taking responsibility over the correct operation of your entire device.

