

The Droplet is anywAIR iO's multi-purpose wireless (LoRa) IoT environmental sensor. Designed to capture the most useful sensor data, in a small package, with minimum install time.

Measuring Temperature, Humidity, Light (Lux), and Motion , the Droplet sensors collect the most useful environmental data that can be used to monitor, control, and utilize spaces better.

The Droplet is a surface mount sensor, making installation time trivial by eliminating sensor wiring. This greatly reduces cost, and interruption to the building occupants.

LoRa wireless IoT technology provides a very long transmission range that is energy efficient and less susceptible to object interference than other wireless technologies.

Powered by 3 x AA batteries, Droplet sensors have a runtime of 3-5 years depending on the configured push rate.



Technical Data

General	
Dimensions	86mm x 86mm x 25.5mm or 3.39in x 3.39in x 1.0in
Power Supply	3 x AA Batteries (3-5 years runtime depending on configured push rate)
Push Rate	Adjustable: 30sec, 1min, 3min, 5min, 10min, 15min, 30min, 1hour
IP Rating	IP40
Sensor Specifications	
Temperature Sensor	Operating Range: -10°C -> 80°C, Accuracy: ± 0.25°C
Humidity	Operating Range: -10°C -> 80°C, Accuracy: ± 0.1 %RH
LUX Sensor	Detection Range: 1-65535 lx
PIR Sensor	Detection Range: 5 meters Field of View: 120deg cone
Wireless Communications (LoRa)	
Transmit Frequency	915 MHz
Spreading Factor	7
Bandwidth	250 kHz

Ordering Information

Device Models	
<p>D - LR - _ _ _ _</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: left;"> <p><u>Product Family</u> D - Droplet</p> <p><u>Communication</u> LR - LoRa Raw</p> </div> <div style="text-align: left;"> <p><u>Sensors (add all required)</u> TH - Temperature and Humidity L - Light / Lux M - Motion / PIR</p> </div> </div>	
D-LR-TH	LoRa RAW wall mount sensor. Temperature, Humidity.
D-LR-THL	LoRa RAW wall mount sensor. Temperature, Humidity, Light/Lux.
D-LR-THLM	LoRa RAW wall mount sensor. Temperature, Humidity, Light/Lux. Motion (PIR).

Configuration

DIP Switch Settings																			
<p>DIP Switches 1-3 Data Interval/Push Rate</p>	<table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Interval</th> <th>30 sec</th> <th>1 min</th> <th>3 min</th> <th>5 min</th> <th>10 min</th> <th>15 min</th> <th>30 min</th> <th>1 hour</th> </tr> </thead> <tbody> <tr> <td>Switches 1,2,3</td> <td>100</td> <td>010</td> <td>110</td> <td>001</td> <td>101</td> <td>000</td> <td>011</td> <td>111</td> </tr> </tbody> </table>	Interval	30 sec	1 min	3 min	5 min	10 min	15 min	30 min	1 hour	Switches 1,2,3	100	010	110	001	101	000	011	111
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<p>DIP Switch 4* PIR Interrupt Enable</p>	Set switch to ON/1 to enable data push on Motion (PIR) detection.																		
<p>DIP Switch 5 Serial Debug Enable</p>	Set switch to ON/1 to enable debug messages over serial.																		
<p>DIP Switch 6 Hard Reset</p>	Hard reset. When the switch is set to ON/1 a new Sensor ID will be assigned everytime the device is powered up.																		
<p>DIP Switches 7-8 Testing Mode - Sensor ID Assignment</p>	<p>If switches 7 or 8 are set to 1 (Testing Mode), this will override other Push Rate settings and assign a fixed Sensor ID and send data at a 6 second Push Rate. When both switches are set to 0, the device will use its configured push rate, and self assigned Sensor ID.</p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th>Switch Position</th> <th>Sensor ID Assignment</th> </tr> </thead> <tbody> <tr> <td>00</td> <td>Self Assigned ID</td> </tr> <tr> <td>10</td> <td>AAB2AAAA - 6 Sec Intervals</td> </tr> <tr> <td>01</td> <td>BBB2BBBB - 6 Sec Intervals</td> </tr> <tr> <td>11</td> <td>CCB2CCCC - 6 Sec Intervals</td> </tr> </tbody> </table>	Switch Position	Sensor ID Assignment	00	Self Assigned ID	10	AAB2AAAA - 6 Sec Intervals	01	BBB2BBBB - 6 Sec Intervals	11	CCB2CCCC - 6 Sec Intervals								
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**Only on D-LR-THLM*

