

Droplet

The Droplet by Nube iO is a cutting-edge wireless (LoRa®) IoT sensor that excels in capturing essential environmental data, including Temperature, Humidity, Light (Lux), and Motion. Its surface mount design streamlines installation by eliminating the need for sensor wiring, reducing costs and disruptions for building occupants.

Leveraging LoRa® technology, the Droplet ensures a robust transmission range, energy efficiency, and minimal susceptibility to object interference compared to other wireless technologies. This makes it an ideal choice for monitoring, controlling, and optimising various spaces.

Powered by 3 x AA batteries, Droplet sensors offer a reliable 3-5 year runtime, depending on the configured push rate. This long-lasting performance ensures consistent data collection and monitoring for extended periods.



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			
Device Model #		DR-06-N1	DR-06-N2	DR-06-N3
Sensor Specifications				
Temperature Sensor	Operating Range: -10°C -> 80°C, Accuracy: ± 0.25°C	✓	✓	✓
Humidity	Accuracy: ± 0.1 %RH	✓	✓	✓
LUX Sensor	Detection Range: 1-65535 lx		✓	✓
PIR Sensor	Detection Range: 5 meters Field of View: 120 deg cone			✓

Wireless Communications									
LoRa®	Supported Frequencies: AU915								
	Spreading Factor: 7								
	Bandwidth: 250 kHz								
DIP Switches 1-3 Data Interval/Push Rate	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
DIP Switch 4* PIR Interrupt Enable	Set switch to ON/1 to enable data push on Motion (PIR) detection. <i>*Only on DR-06-N3</i>								
DIP Switch 5 Serial Debug Enable	Set switch to ON/1 to enable debug messages over serial.								
DIP Switch 6 Hard Reset	Hard reset. When the switch is set to ON/1 a new Sensor ID will be assigned every time the device is powered up.								
DIP Switches 7-8 Testing Mode - Sensor ID Assignment	If switches 7 or 8 are set to 1 (Testing Mode), the device will override any other Push Rate settings and automatically assign a fixed Sensor ID. Data will be sent at a 6-second Push Rate. When both switches are set to 0, the device will revert to its default push rate and use its self-assigned Sensor ID.								
	Switch Position	Sensor ID Assignment							
	00	Self-Assigned ID							
	10	AAB2AAAA - 6 Sec Intervals							
	01	BBB2BBBB - 6 Sec Intervals							
	11	CCB2CCCC - 6 Sec Intervals							

About Nube iO

At Nube iO, we make buildings smarter. From enterprise and industrial portfolios to light commercial and smart homes, our scalable, data-driven technology bridges BMS and IoT to connect devices, systems, and spaces - giving users simpler control, clearer visibility, and more sustainable operations.

Built to scale from single sites to entire portfolios, our ecosystem — including traditional controls, wireless sensors, protocol-ready gateways and licence-free programming software — delivers seamless integration and real-time optimisation. Backed by global expertise and a focus on innovation, we make building automation smarter, simpler, and future-ready.

Smarter Buildings. Forward Thinking.

Unlock smarter, more sustainable building operations — book a demo at nube-io.com