

NYX QUICK START GUIDE



The solar-powered, wireless IoT sensor NYX is an innovative solution for monitoring indoor environmental parameters. Solar-powered and only 8mm thin, it offers a maintenance-free and attractive design for indoor spaces. The sensor detects temperature, relative humidity and ambient light. The sensor is available with LoRaWAN® and mioty® with different sensor configurations.

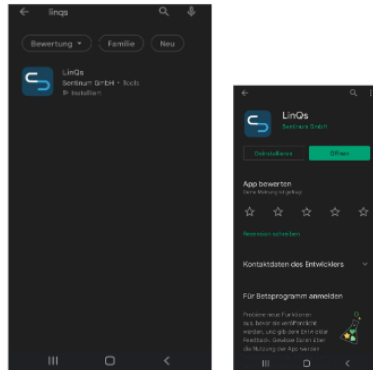
Please observe the warnings and instructions in the operating instructions to ensure the safety of you, your surroundings and the sensor!

ASSEMBLY AND INSTALLATION

First install the wall mount on an interior wall at a height of between 1.50m and 1.80m, in a well-lit location with at least 400Lux per day. Make sure that the sensor is at least 20cm away from people and in an area below 2000m above sea level. Use either the supplied adhesive strips or suitable screws to attach the sensor. Then insert the sensor into the wall bracket until it clicks securely into place and put it into operation.

COMMISSIONING, NFC PARAMETERIZATION AND POSITION OF THE TAG

The sensor is supplied already switched on. It is activated via an NFC app. A smartphone is required for this. The app can be downloaded from the respective app stores. Simply search for "Sentinum LinQs" and download the LinQs app.



First locate the tag on the sensor and then the reader on your end device. You will find the location of the NFC tag at the following position:



PAYLOAD DECODER NYX SERIE

```
function decodeUplink(input) {

    var decoded = {};
    var bytes = input.bytes;

    if (input.fPort == 1) { //TELEMETRY

        //decode header
        decoded.base_id = bytes[0] >> 4;
        decoded.major_version = bytes[0] & 0x0F;
        decoded.minor_version = bytes[1] >> 4;
        decoded.product_version = bytes[1] & 0x0F;
        decoded.up_cnt = bytes[2];
        decoded.battery_voltage = ((bytes[3] << 8) | bytes[4]) / 1000.0;
        decoded.internal_temperature = ((bytes[5] << 8) | bytes[6]) / 10 -
100;

        decoded.networkBaseType = 'lorawan';
        decoded.networkSubType = 'tti';
        var it = 7;
        if (decoded.major_version >= 1) {
            it = 7;
            //Luftfeuchte ist bei allen Varianten enthalten
            decoded.humidity = bytes[it++];
            decoded.dew_point = ((bytes[it++] << 8) | bytes[it++]) / 10 -
100;

            decoded.alarm_level = bytes[it++]; //Alarm-Level, entspricht
            grün, gelb, rot

            if (decoded.product_version & 0x01) { // Lux Sensor
                var raw_lux = (bytes[it++] << 8 | bytes[it++]);
                // decoded.lux_status = raw_lux != 0xffff ? 0 : 1; //raw
                value is 0xFFFF in case of error
                decoded.lux = (1 << (raw_lux >> 12)) * (raw_lux & 0x0FFF) *
0.01;
            }

            if (decoded.product_version & 0x04) { // Has Bme688 Sensor
                decoded.bme_status = bytes[it++];
                decoded.pressure = (bytes[it++] << 8 | bytes[it++]);
                if (decoded.product_version & 0x02) { // Has IAQ Feature
                    decoded.iaq_status = bytes[it++];
                    decoded.iaq_index = (bytes[it++] << 8 | bytes[it++]);
                }
            }
        }
    }

    return {
        data: decoded,
        warnings: [],
        errors: []
    };
}
```