

NYX TECHNICAL DATA SHEET



The solar-powered, wireless IoT sensor NYX is an innovative solution for monitoring indoor environmental parameters. Solar-powered and only 8 mm 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.

VERSIONS

ITEM CODE	FEATURES
S-NYXX-LOEU-THL	NYX, LoRaWAN EU, Temperature, relative humidity and ambient light indicator
S-NYXX-MIOTY-THL	NYX, mioty EU, Temperature, relative humidity and ambient light indicator



GENERAL DATA

FEATURE	VALUE	UNIT
Dimensions	86.5x67x8.5 (without wall bracket)	mm
weight	120	g
Operating temperature	Mai 60	°C
Storage temperature	15 - 25	°C
Rel. humidity during operation	5 - 90	%RH
IP rating	21	
Sensors	Temperature, rel. humidity, ambient light	
Traffic light function	Yes, LEDs	
Acoustic alarm function	Buzzer, beep	
Provisioning	NFC	
material	ABS	
NFC antenna	Integrated	
BLE antenna	-	
RF antenna	Integrated	
Accelerometer	-	
batteries	Supercap, pouch cells, non-replaceable	
Primary cell type	-	
Secondary cell	Supercap, pouch cells	

KONNEKTIVITÄT UND RF SPEZIFIKATION

FEATURE	VALUE	UNIT
Sub 1 GHz RF Standatds	LoRaWAN®, mioty®	mm
Frequency LoRaWAN, mioty EU	868	MHz
Mobile radio frequency	Band 8,20	
Transmission power LoRaWAN/mioty EU	14	dbm
Transmission power mobile radio	Not available	dbm
LoRa Mac Layer Version	1.0.4	
Regional Parameters Version	RP002 Regional Parameters 1.0.3	

SENSOR SPECIFICATION TEMPERATURE

FEATURE	VALUE	UNIT
Measuring range	-40 to +125	°C
Drift long-term	<0,02	°C
Resolution	0,1	°C
accuracy	+/-0,2	°C
Repeatability	0,2	°C

SENSOR SPECIFICATION REL. HUMIDITY

FEATURE	VALUE	UNIT
Measuring range	0 to 100	%RH
Drift long-term	<0,25	%RH/year
Resolution	1	%RH
accuracy	+/-2,0	%RH
Repeatability	0,1	%RH

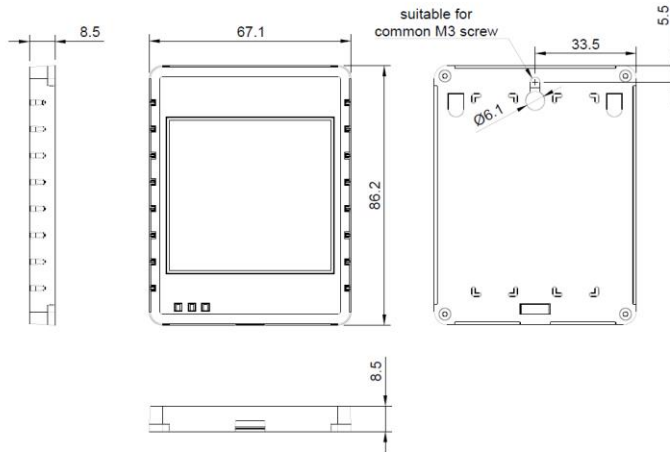
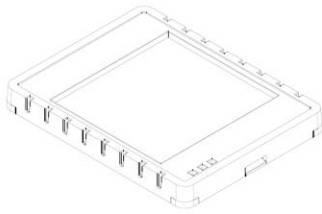
SENSOR SPECIFICATION AMBIENT LIGHT SENSOR

FEATURE	VALUE	UNIT
Measuring range	0.01 to 83,000	lux
Resolution	1	lux

RUNNING TIMES

Positive energy balance at 400lux over 7 hours a day with a measuring rate of 5 minutes and a transmission frequency of 2 hours

TECHNICAL DRAWING SENSOR AND WALL BRACKET



Wall mount

