



eGATE-FLEX-SKY-NSSENS-HT-ENS-5M HUMIDITY AND TEMPERATURE TRANSMITTER

TRANSMITTER PART eGATE-FLEX-SKY-NSSENS

Wireless measurement transmitter, LoRa modulation with license-free 433 Mhz ISM band for eGate-nSens-HT-ENS sensor.

RADIO TRANSMITTER:

Modulation:	LoRa
Frequency range:	433.05...434.79 MHz
Transmitting power:	maximum 10 mW
Range:	Maximum of approximately 10 km in open space, indoors usually 30...300 m
Transmitting interval:	15 minutes

MEASUREMENT PART:

Connection:	Digital connection and quick disconnect connector for eGate-nSens-HT-ENS sensor
Power supply:	1.5 V AA alkaline battery
Battery life:	Approximately 3 years with 5 minute transmitting interval

Housing material:	ABC+PC and PC plastic, grey
Usage temperature:	-30...60°C (-22...140°F)
Storage temperature:	-30...60°C (-22...140°F)
Protection class:	IP40
Outer dimensions with sensor:	475 x 60 x 33 mm
Weight including sensor:	0.29 kg

SENSOR PART eGATE-NSSENS-HT-ENS

Electrolytic humidity sensor with internal digital linearization electronics and calibration memory Temperature sensor. Connectable with a quick disconnect connector to wireless eGate-Flex-Sky-nSens transmitter.

Function principle:	Electrolytic humidity sensor based on resistance changes
Special:	High accuracy and linearity also in consistently humid conditions

MEASUREMENT RANGE:

Humidity:	0...100% RH
Temperature:	-20...+80°C (-4...+176°F)

MEASUREMENT ACCURACY, INCLUDING REPETITION AND HYSTERESIS:

Humidity:	15...30°C: ±0.5% RH (59...86°F: ±0.5% RH)
	0...50°C: ±0.8% RH (32...122°F: ±0.8% RH)
	-20...80°C: ±2.5% RH (-4...176°F: ±2.5% RH)
Temperature:	0...70°C: ±0.1°C (32...158°F: ±32.2°F)
	-20...80°C: ±0.2°C (-4...176°F: ±32.4°C)

NUMBER OF CALIBRATION POINTS:

Humidity:	13 points over the entire measurement area
Temperature:	2 points over the entire measurement area

Housing material:	PVDF plastic, black
Sensor element cover:	nCap-PS, polyethylene - silver oxide filter, changeable
Usage temperature:	-20...80°C (-4...176°F)
Storage temperature:	-10...60°C (14...140°F) (no condensation)



For technical details, the product is the same as **eGate-FLEX-SKY-NSSENS-HT-ENS**, but is supplemented by a 5 meter long extension cable with quick disconnect connectors to mount the **nSENS-HT-ENS** sensor to structures so that it can remain there permanently. If necessary, the transmitter part can be detached from the extension cable and reused even if the sensor part was left to the structures permanently.