



eGATE-FLEX-SKY-NSSENS-HT-ENS 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

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°F)

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)

