



eGATE-FLEX2-LWUS-NSENS-HT-ENS HUMIDITY AND TEMPERATURE TRANSMITTER

TRANSMITTER PART eGATE-FLEX2-RADIO-LWUS-NSENS

Wireless measurement transmitter, LoRa modulation eGate-Flex2-Module-nSens.

MEASURING AND DATA TRANSMISSION:

Measure interval:	Configurable: 0...14400s
Radio:	LoRa radio technology with Murata ABZ-093 LoRaWAN modem.
Antenna:	Internal
Frequency band:	EU868: 863-870 MHz / US915: 902-928 MHz
Transmission power:	Max +14 dBm E.R.P.
Range, line-of-sight:	Depends on installation location and environment, in good conditions 10 km (6.21 mi)



POWER SUPPLY:

Batteries:	3.6V Lithium Thionyl battery pack
Battery life:	Approximately 5 years with 15 minute transmitting interval

MEASUREMENT PART:

Connection:	Digital connection and quick disconnect connector for eGate-Flex2-Module-nSens sensor
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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 / 17.70 x 2.36 x 1.30 in

SENSOR PART eGATE-FLEX2-MODULE-NSENS

Electrolytic humidity sensor with internal digital linearization electronics and calibration memory
Temperature sensor. Connectable with a quick disconnect connector to wireless eGate-Flex2-Radio-LWUS-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

ACCURACY:

Humidity:	±0.5% RH (10...90% RH and 15...30°C / 59...86°F) ±0.8% RH (90...100% RH and 0...50°C / 32...122°F) ±2.5% RH (0...100% RH and -20...80°C / -4...176°F)
Temperature:	±0.1°C (0...70°C / 32...158°F) ±0.2°C (-20...80°C / -4...176°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)