

### eGATE-KOMBI-LWUS-RHT-DUST13

Temperature, humidity and (0.35–12.4 µm) microparticle transmitter.

#### POWER SUPPLY:

External: Micro USB type B, 5 ± 0.5 V, max 200 mA, no suspend function

#### MEASURING AND DATA TRANSMISSION:

Interval: Configurable: 5 min / 10 min / 15 min / 20 min / 30 min / 1 h / 2 h / 3 h / 4 h / 6 h  
 Radio: LoRa radio technology with Murata ABZ-093 LoRaWAN modem.  
 Antenna: Internal  
 Frequency band: 902–928 MHz (LoRaWAN 1.0.2 US band)  
 Transmission power: Max +20 dBm E.R.P.  
 Range, line-of-sight: Depends on installation location and environment, in good conditions 10 km (6.21 mi)



#### TEMPERATURE MEASUREMENT:

Sensor: High-accuracy semiconductor sensor, Swiss  
 Measurement range: -40...+125°C / -40...+257°F  
 Accuracy: Typically ±0.1°C (+20...+60 °C / +68...+140 °F)

#### HUMIDITY MEASUREMENT:

Sensor: High-accuracy semiconductor sensor, Swiss  
 Measurement range: 0...100 %RH  
 Accuracy: Typically ±2 % RH (0...100 % RH and 0...+80°C / 32...+176°F)

#### PM0413 MEASUREMENT:

Measurement range: 0...1.2 million particles per litre (up to 10,000 particles per second)  
 Particle sizes: 0.4...12.4 µm  
 Particle type: For max accuracy, assumed to be spherical, density 1.65 g/ml, refractive index 1.5  
 Values measured: PM1, PM2.5, PM10  
 PM10 range: 1...6550 µg/m<sup>3</sup>

Housing material: ABS+PC  
 Usage temperature: 0...50°C / 32...122°F, no condensation  
 Storage temperature: -30...60°C / -22...140°F, no condensation  
 Protection class: IP20  
 Outer dimensions: 95 x 75 x 46 mm / 3.74 x 2.95 x 1.81 in  
 Outer dimensions including bracket: 95 x 75 x 47 mm / 3.74 x 2.95 x 1.85 in  
 Weight: 0.15 kg / 0.33 lb