



Validation and data availability

Some issues with signal spikes and flat or max values
Availability between 71% and 92%

PM_{2.5} comparison with automatic reference

mean bias: $-3.9 \mu\text{g}/\text{m}^3$ $R^2 : 0.72$

PM₁₀ and PM_{coarse} performance

Sensor occasionally picks up some PM_{coarse}
but correlation is very poor

PM_{2.5} between-sensor uncertainty

$2.4 \mu\text{g}/\text{m}^3$ or **27%**

Effect of relative humidity (PM_{2.5})

sensor/ref x **2.1** (from 50% to 90% RH)

EU expanded uncertainty vs gravimetric ref. (PM_{2.5})

35% without calibration

21% after local calibration