CORRECTION

Correction: Measuring CO₂ and CH₄ with a portable gas analyzer: Closed-loop operation, optimization and assessment

Jeremy Wilkinson, Christoph Bors, Florian Burgis, Andreas Lorke, Pascal Bodmer

There are errors in [S2 File](#). Please view the correct [S2 File](#) below.

There are errors in Eqs 1, 2 and 4. Please view the complete, correct equations here:

$$X_s = \left(\frac{V_l + V_s}{V_s} \right) \Delta X + X_0 = \frac{V_l}{V_s} \Delta X + X_\infty \quad (1)$$

V_s is the injected sample volume, V_l is loop volume, and X_∞ is the steady final plateau concentration, and $\Delta X = X_\infty - X_0$.

$$V_l = \left(\frac{X_s - X_0}{\Delta X} \right) V_s - V_s \quad (2)$$

$$X_\infty = \frac{X_s V_s + X_0 V_l}{V_s + V_l} = X_{exp} = \frac{X_{stn} V_s + X_0 V_l}{V_s + V_l} \quad (4)$$

X_{exp} is the expected X_∞ (i.e. the steady final plateau concentration), and X_{stn} is the standard (sample) gas concentration of the injected X_s .

Supporting information

S2 File. [S2_extractor.xlsb](#).

(XLSB)

Reference

1. Wilkinson J, Bors C, Burgis F, Lorke A, Bodmer P (2018) Measuring CO₂ and CH₄ with a portable gas analyzer: Closed-loop operation, optimization and assessment. PLoS ONE 13(4): e0193973. <https://doi.org/10.1371/journal.pone.0193973> PMID: 29617382

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