

Correction Factors For Variation From Original Digester Gas Calibration

Sage can calibrate for any Digester Gas, Bio Gas or Landfill Gas Mix. However, it may be helpful to have correction factors for a typical calibration, in the event that the composition changes after delivery. The following examples assume that the initial calibration was set up for 60% CH₄ and 40% CO₂.

- a) 65% CH₄ and 35% CO₂: Multiply reading by 0.982 to correct it for new composition
- b) 70% CH₄ and 30% CO₂: Multiply reading by 0.965 to correct it for new composition
- c) 55% CH₄ and 45% CO₂: Multiply reading by 1.0185 to correct it for new composition

For smaller changes, the corrections are linear in between

- d) Also, if 100% saturated with H₂O vapor (non-condensing), multiply readings by 1.042
- e) If 50% saturated with water, multiply reading by 1.021
(Water vapor correction is linear in between)

Also, use the 45 degree mounting method in order to avoid droplets from hitting the sensor and causing spikes (see above right)

Installations Where Pipe Condensation May Develop



TILT ENCLOSURE 45°
(forward or backward)
FOR APPLICATIONS WHERE
CONDENSATION MAY DEVELOP
ON INSIDE WALL OF PIPES