Formula

Type: Methane Sensor METS

Serial number: **G60-E275**

$$c = \exp\left[1{,}661 * \ln\left\{\left(0{,}392 + 2{,}351 * \exp\frac{-V_t}{0{,}514}\right) * \left(\frac{1}{V_{CH4}} - \frac{1}{-1{,}447 + 11{,}129 * \exp\frac{-V_t}{1{,}203}}\right)\right\}\right]$$

$$t = (V_t * 22{,}62) - 3{,}60$$

O_2 correction:

$$c_{CH4}(corr) = \left(-0{,}174 + 0{,}212 * \exp\frac{c_{O2}}{58{,}821}\right) * c_{CH4}$$

c_{CH4} = methane concentration [µmol/l]
t = gas temperature [°C]
V_{CH4} = methane voltage [V]
V_t = temperature voltage [V]
c_{O2} = O_2 concentration [%]

Methane range: 10 nmol/l - 1 µmol/l

Temperature range: 10 – 30 °C

Calibrator :   J.G. …………………   Date : ……..…………….