Formula

Type: Methane Sensor METS

Serial number: **G70-E284**

$$c = \exp\left[1{,}445 * \ln\left\{\left(0{,}048 + 5{,}610 * \exp\frac{-V_t}{0{,}646}\right) * \left(\frac{1}{V_{CH4}} - \frac{1}{-4{,}266 + 10{,}881 * \exp\frac{-V_t}{3{,}692}}\right)\right\}\right]$$

$$t = \left(V_t * 22{,}78\right) - 4{,}35$$

O_2 correction:

$$c_{CH4}(corr) = \left(-0{,}586 + 0{,}654 * \exp\frac{c_{O2}}{111{,}834}\right) * c_{CH4}$$

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: 100 nmol/l - 10 µmol/l

Temperature range: 10 – 30 °C

Calibrator : J.G. …….

Managing Director : M.M. ……..

Date : ……..