

METS Sensor #1
(WITH Pump)

s/n T44-E227

Type: Methane Sensor METS

Serial number: **T44-E227**

$$c = 0,8 * \exp \left[2,041 * \ln \left\{ \left(-0,120 + 1,880 * \exp \frac{-V_t}{1,730} \right) * \left(\frac{1}{V_{CH4}} - \frac{1}{-0,561 + 12,373 * \exp \frac{-V_t}{1,067}} \right) \right\} \right]$$

$$t = (V_t * 24,56) - 5,56$$

O₂ correction:

$$c_{CH4}(corr) = \left(-0,091 + 0,111 * \exp \frac{c_{O2}}{43,803} \right) * c_{CH4}$$

c_{CH4} = methane concentration [μmol/l]

t = gas temperature [°C]

V_{CH4} = methane voltage [V]

V_t = temperature voltage [V]

c_{O2} = O₂ concentration [%]

Methane range: 10 nmol/l - 1 µmol/l
Temperature range: 10 – 30 °C

	da scheda	true [V]
Conc[mV]:	1424,1	2,109328 V _{CH4}
Temp[mV]:	2073,5	0,795304 V _t

a	b
-2,0254	4,9937
-2,0258	4,9958

<i>c</i> [µMol/l]	0,077
<i>temp</i> [°C]	13,97