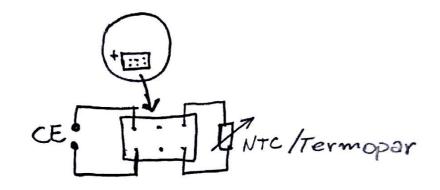


AKSO - AK51

*Probe pinout



condutance:

Cell constant:

Condutivity:

 $Q = \frac{d}{a}$

Morreção da temperatura

KREF = Condutivity at TREF Kr = Condutivity at T

Tref = Reference temperature

T = sample temperature

O = Temperature coefficient

Usually Tref = 25°C

> Determination of ⊖

Measuring the condutivity of a sample temperature TI close to Tref and another temperature Tajuse the following equation:

$$\Theta = \frac{(K_{72} - K_{71}).100}{(T_2 - T_1).K_{71}}$$

* Ta should be selected as atspical sample temperature and should be approx. 10°C different from Ta Condutance:

$$G = \frac{1}{R} [s] (1)$$

Cell constant:

$$\Omega = \frac{d}{d} \left[\text{cm}^{-1} \right] \quad (2) \quad K = \frac{1}{R} \cdot \frac{d}{d} \left[\frac{s}{\text{cm}} \right]$$

Condutivity 1

Condutivity at Tres;

$$K_{Tref} = \frac{100}{100 + \Theta(T - T_{Ref})} \cdot K_T$$

$$k_{\text{Tret}} = \frac{100 \text{ GQ}}{100 + \Theta(\text{T-Tref})}$$

$$\Theta = \frac{(k_{72} - k_{71}).100}{(T_2 - T_1).k_{71}}$$

