Sky Temperature Correction Model

The model to correct the sky temperature measured by the infrared sensor (T_s) is given in terms of the ambient temperature (T_a) by:

```
T_{d} = (K1 / 100) * (T_{a} - K2 / 10) + (K3 / 100) * (Exp (K4 / 1000* T_{a})) ^ (K5 / 100)
where
T_{d} = \text{Correction value (°C)}
T_{a} = \text{Ambient temperature (°C)}
K1, K2, K3, K4 \& K5 \text{ are the coefficients defined in the } \textit{Device}
section of the \textit{Setup} TAB
Exp(n) = e \text{ (the base of natural logarithms) raised to the power of } n.
a^{b} = a \text{ raised to the power of } b
```

The corrected sky temperature (T_{sky}) is given by:

```
\begin{split} T_{sky} = & \ T_s - T_d \\ \text{where} & \ T_{sky} = \text{Corrected Sky Temperature (°C)} \\ & \ T_s = \text{Infrared Sky Measured Temperature (°C)} \\ & \ T_d = \text{Correction value (°C)} \end{split}
```