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## VC10TCoupleK

The VC10TCoupleK function Converts a voltage value, expressed in microvolts, to the corresponding temperature value, expressed in tenths of a Celsius degree, connected to the thermocouple type K.

Input range : from -6000  $\mu\text{V}$  to 54800  $\mu\text{V}$

Output range : from -2702  $^{\circ}\text{C}^{-1}$  to 13695  $^{\circ}\text{C}^{-1}$

## IMPLEMENTATION

### VC10TCoupleK (mvhot, dgradi\_hot, gbError)

Parameters:

IN/OUT	VARIABLE TYPE	EXAMPLE NAME	DIM	
IN	GLOBAL	mvhot	L	It is the voltage value to convert expressed in micro Volts.
OUT	GLOBAL	dgradi_hot	L	It is the converted temperature value expressed in tenths of a Celsius degree.
OUT	GLOBAL	gbError	B	Variable containing the error code

### Error

Once invoked the function if there are any errors the error variable having the following values:

0 - No error

1 - Value less than the minimum

2 - Value higher than the maximum

3 - Value indicating disconnected input

### Example

```

...
; Cold-junction reading
card_type = 0 ; using L1TT0 card
IR10CJRead (COLD, card_type, dgradi_cold, error)
...
; Hot-junction reading
card_type = 0
IR10HJRead (HOT, card_type, mvhot, error)
...
VC10TCoupleK (mvhot, dgradi_hot, gbError)
...
temperatura = dgradi_cold + dgradi_hot ;Temperature in tenths of a degree
...

```

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