Sommario

VC10TCoupleJ

The VC10TCoupleJ function Converts a voltage value, expressed in microvolts, to the corresponding temperature value, expressed in tenths of a Celsius degree, connected with a thermocouple type J.
Input range : from -8200 µV to 69600 µV

Output range : from -2155 °C^{-1} to 12008 °C^{-1}

IMPLEMENTATION

VC10TCoupleJ (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)
...
VC10TCoupleJ (mvhot, dgradi_hot, gbError)
...
temperature = dgradi_cold + dgradi_hot  ;Temperature in tenths of a degree
...
```