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VC10PTC100

The VC10PTC100 function Converts a value of resistance, expressed in hundredths of Ohm, the corresponding temperature value, expressed in hundredths of a Celsius degree, connectet with a PT100.

Input range : from 1840 Ω^2 to 39060 Ω^2

Output range : from -20028 $^{\circ}\text{C}^2$ to 85041 $^{\circ}\text{C}^2$

IMPLEMENTATION

VC10PTC100 (glResistenza, glTemperat, gbError)

Parameters:

IN/OUT	VARIABLE TYPE	EXAMPLE NAME	DIM	
IN	GLOBAL	glResistenza	L	It is the resistance value to be converted in hundredths of Ohms.
OUT	GLOBAL	glTemperat	L	It is the converted temperature value expressed in tenths of a Celsius degrees.
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 input disconnected

Example

```
...
; PT100 resistance reading
IR10PTCRead (PTA_V1, PTA_V2, PTA_V3, glResistenza, error)
...
; Temperature conversion
VC10PTC100 (glResistenza, glTemperat, gbError)
...
gradi = glTemperat / 100    ;Temperature in Celsius degrees
...
```

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