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IR11PTCRead

D = Device(ANINP)

R = Reading functions

The IR11PTCRead function reads the temperature value for a three-point PT100 supported by a card type L1TP0.

IMPLEMENTATION

IR11PTCRead (PTA_V1, PTA_V2, PTA_V3, glResistance, gbError)

Parameters:

IN/OUT	VARIABLE TYPE	EXAMPLE NAME	DIM	
IN	INTDEVICE ANINP	PTA_V1	-	Mnemonic nema of ANINP device used for the entry V1
IN	INTDEVICE ANINP	PTA_V2	-	Mnemonic nema of ANINP device used for the entry V2
IN	INTDEVICE ANINP	PTA_V3	-	Mnemonic nema of ANINP device used for the entry V3
OUT	GLOBAL	glResistance	L	It is expressed in hundredths of bed resistance Ohm.
OUT	GLOBAL	gbError	B	Variable containing the error code: 0 = no error 1 = underflow 3 = disconnected input

Error

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

- 0 - No errors
- 1 - underflow
- 3 - Disconnected input

Example

```
...
; PT100 resistance reading
IR11PTCRead (PTA_V1, PTA_V2, PTA_V3, resistor, gbError)
...
```

Note

- The function initializes some parameters related to 3 ANINP device passed to the function, as follows:

```
PTA_V1:offset = 0
PTA_V1:scaleA = 1
PTA_V1:scaleB = 1
PTA_V1:scaleC = 0
PTA_V2:offset = 0
PTA_V2:scaleA = 1
PTA_V2:scaleB = 1
PTA_V2:scaleC = 0
PTA_V3:offset = 0
PTA_V3:scaleA = 1
PTA_V3:scaleB = 1
PTA_V3:scaleC = 0
```

CHANGES FROM PREVIOUS RELEASES

Changes from 10 to 11: Changed the threshold to define that the sensor is disconnected. Also added an internal timer fixed verification in 5 sec. to define that the sensor is disconnected.

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