

PCE

**€**€ №61010-

**€** N-61326-

**Q** 150 9001

# 1. Characteristics

Modules 'PCE-DPD-U/A1' provide 4/20 mA analog output signal, to be installed on slot 'Opt.1' on instruments. Installing a 'PCE-DPD-U/A1' module is fast, with the only help of a flat screw driver to unlock the housing clips and a minimum configuration explained in this document. The 'PCE-DPD-U/A1' module provides 4/20 mA signal, isolated, proportional to the instrument reading, scalable both with positive or negative slope, and can be connected to generate active or passive loops.

### Material included with the reference PCE-DPD-U/A1



minal connections from power lines, input signal and controls

## 2. Additional documentation

If you need additional information, you can download the full User's Manual or check the QR to go to www.pce-instruments.com







- 1. Open the housing (see section 7) 2. If a module exists on slot 'Opt.1', take it out 3. Install module 'PCE-DPD-U/A1' at slot 'Opt.1' and then the instrument 4. Close the housing (see section 7) 5. Configure module 'PCE-DPD-U/A1' and scale it (see section 6))

# 6. Configuration for module 'PCE-DPD-U/A1' and scaling

### 6.1 Activate the module PCE-DPD-U/A1

### 6.2 Introduce the data fo

- Parameters by default
  - 'cAL.y'  $\rightarrow$  '4mA
  - 'cAL.y'  $\rightarrow$  '20m
- Correct the values 10 sheet attached to the
- for the analog output 4 - press key 'SQ' (■) to
- press key 'UP' ( 🔺 ) un
- press key 'SQ' (■) 3 ti
- press key 'UP' ( 🔺 ) un
- press key 'SQ' (■) to
- press key 'SQ' (■) to
- in our sample is XXX) - enter the menu '20m
- our sample)
- tered, the data remains in the memory.

### 6.3 Configure output 4/20mA with the desired adjust according to the indication of the meter

Analog output i	s scaled
this scale, in the	menu '
- d.Lo = 0000	indica
- d.hI = 1000	indica

Rox

7 00000000

Note : if you do not have the sheet 'Data for precision improvement' supplied with the module, but you do have a miliammeter to measure the mA generated by the loop, you can still access parameters 'cAL.y'  $\rightarrow$  '4mA' and 'cAL.y'  $\rightarrow$  '20mA' and readjust the value manually by checking the generated signal in your miliammeter.





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Risk of electric shock. Removing the front cover will grant access to the internal circuits. Disconnect the power and the input signal to prevent electric shock to the operator. Operation must be performed by qualified personnel only.

# 5. How to install the module

- Once installed, the instrument must be informed that such module is installed at Slot 'Opt.1' and configure the adjust for the analog output 4/20mA
- To do it, go to parameter 'Tool'  $\rightarrow$  'out.1' and select value '420'. Validate 'cAL.n' and leave the menu saving. A step-by-step process is indicated below :

- enter the configuration menu pressing key 'SQ' (■). Meter shows 'InP'
- press key 'UP' ( > ) several times until parameter 'TooL' is displayed
- press key 'SQ' ( ) to enter the 'TooL' menu, message 'out.1' is displayed
- press key 'SQ' ( ) to enter the 'out.1' menu, message 'oFF' is displayed
- press key 'UP' ( > ) until value '420' is displayed
- press key 'SQ' ( ) to enter the '420', message 'cAL.n' is displayed
- press key 'SQ' ( ) to validate 'cAL.n', then 'out.1' appears again
- press key 'LE' ( ) several times to leave the configuration menu saving new parameters
- when leving the menu the instrument restarts to apply the new changes, and shows the new parameters configuration. Now analog output is activated and functional.

r precision improvement for the output		ta for precision im Iodule Analog	prover g outp	ment ut 4/20	) mA	
are :			9 -	.,		
'= 100		Parameter		Value		
<b>A</b> ′ = 900		'cAL.y' → '4mA'	×	×	×	
) and 900 with the values supplied in the						
module "Data for precision improvement"		${}^{\prime}cAL.y^{\prime} \rightarrow {}^{\prime}20mA^{\prime}$	Z	Z	2	
/20mA					4042r00	
enter the menu			٨		404	
til reach parameter ' <b>TooL</b> '						
imes to enter to 'TooL' $\rightarrow$ 'out.1' $\rightarrow$ '420' $\rightarrow$ 'cAL.n'						
til reach parameter ' <b>cAL.y</b> '						
enter ' <b>cAL.y</b> ', it shows ' <b>4mA</b> '						
enter '4mA' and modify the parameter 100 for the value supplied (value						
$\mathbf{A}'$ and modify the parameter 900 for the value supplied (value ZZZ in						

- press key 'LE' ( ◀ ) several times to go out the menu configuration saving new parameters

The entered 'cALy' values are not reseted if the "factory default" function is activated. Once en-

d with respect to the indication, with a scale 0/1000=4/20mA. To modify 'out.1'  $\rightarrow$  'dLo' and 'dhl', which can be modified to scale the analog output: ation for 4 mA. Modify according to the required setting.

ation for 20 mA. Modify according to the required setting.