

## FEATURES:

**HCL14**

compatible

**LPConfig**

compatible

$$Y=a*x+b$$

Individual characteristic



NEW



- Full galvanic isolation of the input, output and auxiliary supply.
- Matching of analog signals in automation systems.
- Fully configurable through the HCL14 programmer. By means of the programmer, one can change the input type, output type, measurement averaging time and recalibrate the analog output according to the output individual characteristic.
- Small dimensions.
- 0.2 accuracy class.

## INPUTS:

DC

-20...20 mA

-10...10 V

## OUTPUTS:

-20...20 mA

-10...10 V

## GALVANIC ISOLATION:



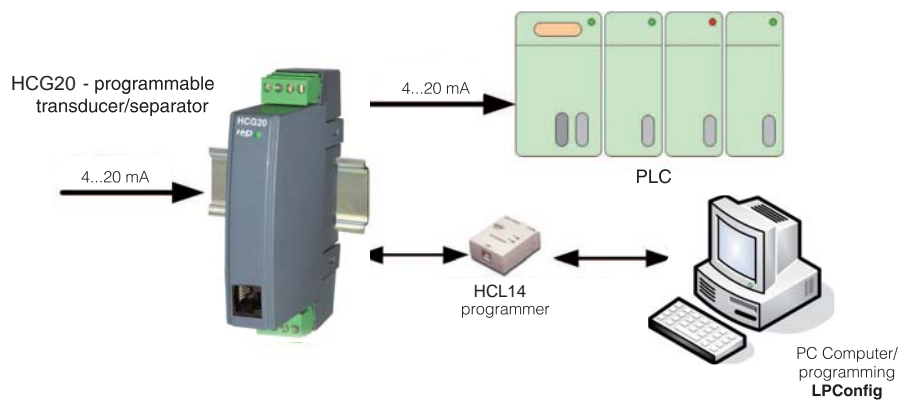
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## EXAMPLE OF APPLICATION



Separation between PLC analog inputs

## INPUTS

Input:	Measuring range:	Parameters	Overloads	Error
Current: -20...20 mA	-20...20 mA; -5...5 mA; 0...20 mA 0...5 mA 4...20 mA	Resistance: $12 \Omega \pm 1\%$	Short duration overload: $5 I_n$ Sustained overload: $1.1 I_n$	Conversion class: 0.2
Voltage: -10...10 V	-10...10 V; -5...5 V -1...1 V 0...10 V 0...5 V 0...1 V	Resistance: $> 1 M\Omega$	Short duration overload: $5 U_n$ Sustained overload: $1.2 U_n$	

## OUTPUTS

Output kind	Properties	Remarks
-20...20 mA	$R_{load} \leq 500 \Omega$	Conversion class: 0.2
-10...10 V	$R_{load} \geq 500 \Omega$	

## EXTERNAL FEATURES

Weight	< 0.125 kg	
Dimensions	22.5 x 120 x 100 mm	
Protection grade (acc. to EN 60529)	ensured by the housing: IP 40	from the terminal side: IP 20
Fixing	on a 35 mm rail	acc. to EN 60715

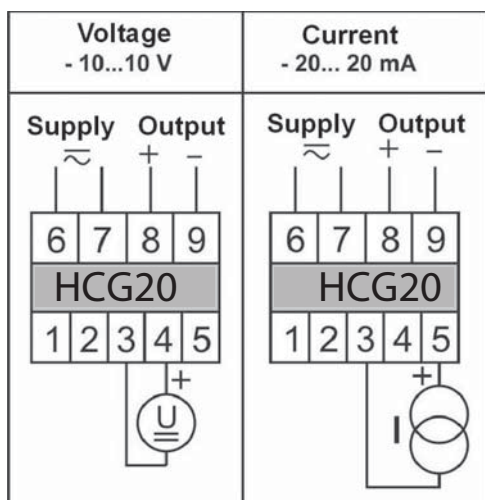
### RATED OPERATING CONDITIONS

Supply voltage	85...253 V a.c. (45...65 Hz) d.c. or 20...40 V a.c. (45...65 Hz) d.c.	power consumption: < 4 VA
Temperature	ambient: -20...23...55°C	storage: -25...85°C
Relative humidity	≤ 95%	inadmissible condensation
Operating position	any	
Preheating time	10 min	
Averaging time of the measurement	≥ 0.1 s	
Response time of the separator	≥ 0.1 s	

### SAFETY AND COMPATIBILITY REQUIREMENTS

Electromagnetic compatibility	Noise immunity	acc. to EN 61000-6-2
	Noise emissions	acc. to EN 61000-6-4
Isolation between circuits	basic	acc. to EN 61010-1
Pollution grade	2	
Installation category	III	
Maximal phase-to-earth operating voltage	for the supply circuit: 300 V (version: 230 V)	
	for the measuring input: 50 V	
Altitude above sea level	for the output: 50 V	
	< 2000 m	

### CONNECTION DIAGRAMS



Electrical connection diagram of the HCG20 separator

### ORDERING

TABLE 1. ORDERING CODES:

HCG20	XX	XX	X	XX	X	X
<b>Input:</b>						
kind of programmed input: see table 2	XX					
<b>Output:</b>						
kind of programmed output: see table 2		XX				
<b>Supply:</b>						
85...253 V a.c./d.c.			1			
20...40 V a.c./d.c.			2			
<b>Version:</b>						
standard				00		
non-standard settings				NS		
custom-made*				XX		
<b>Language:</b>						
Polish					P	
English					E	
other*					X	
<b>Acceptance tests:</b>						
without extra quality inspection requirements						0
with an extra quality inspection certificate						1
acc. to customer's request*						X

TABLE 2. CODING OF THE HCG20 SEPARATOR KIND OF INPUT AND OUTPUT

Range	Input code	Output code
0...1 V	01	01**
0...5 V	02	02
0...10 V	03	03
±1 V	04	04**
±5 V	05	05
±10 V	06	06
0...5 mA	07	07**
0...20 mA	08	08
±5 mA	09	09**
±20 mA	10	10
4...20 mA	11	11
Custom-made version*	XX	XX

\* - after agreeing with the manufacturer

\*\* - conversion class > 0,2

**Order example:**

The code **HCG20 - 08 06 1 00 E 1** means:

**HCG20** - Separator of analog signals (U d.c. and I d.c.)

**08** - kind of programmed input: 0...20 mA

**06** - kind of programmed output: ±10 V

**1** - supply voltage: 85...253 V a.c./d.c.

**00** - standard version

**E** - English language

**1** - with an extra quality inspection requirements

### SEE ALSO:

PROGRAMMABLE  
TRANSDUCER



HCU12

TRANSDUCER  
SUPPLIED FROM A  
CURRENT LOOP



HC15

DIGITAL  
PANEL METER



HI20

MICROPROCESSOR  
CONTROLLER



HR20



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