

# Преобразователи модульные сигнальные DELTA OHM HD588

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# THE HD 588 MODULAR SIGNAL CONVERTER

## THE HD 588 MODULAR SIGNAL CONVERTER WITH 3-WAY GALVANIC SEPARATION FOR THE PROCESSING OF ANALOGUE SIGNALS

0÷20mA  
4÷20mA  
0÷10V

Built inside a 2-module DIN box for 35 mm asymmetric guide, the converter offers, as well as a conversion of analogue signals between input and output, a complete galvanic separation among input, output and power supply. The 3-way circuit configuration ensures a definite decoupling of the sensor circuit from the external control circuit, preventing reciprocal influences in the presence of various measuring circuits.

The HD 588 converter module is made up of the following sections:

- Universal input stage with signal conversion from voltage into frequency.
- Universal output stage with signal conversion from frequency into voltage.
- Power supply stage.

Configuration can be modified through jumper connections, an important feature being the possibility of modifying the type of input and output without having to calibrate the converter again. By simple operations the HD 588 converter allows up to 9 different combinations between input and output.

### FEATURES:

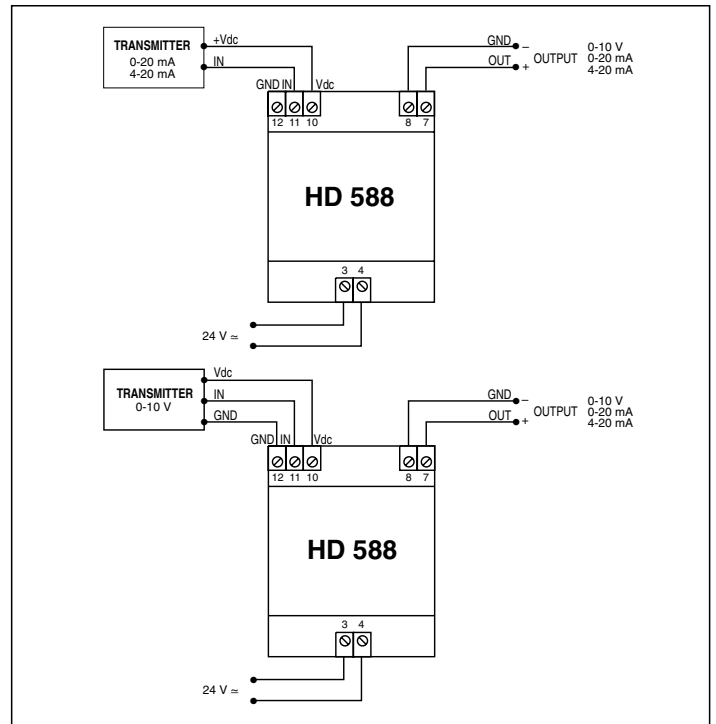
INPUT:	CONFIGURATION:
Input signal:	0÷10Vdc 0÷20mA 4÷20mA
Maximum overload:	11Vdc 22mA
Input impedance:	100KΩ 51Ω
OUTPUT:	
Output signals:	0÷10Vdc, 0÷20 mA, 4÷20 mA
Maximum load:	5 mA, 500Ω
Output impedance:	0,1Ω, 1MΩ
POWER SUPPLY:	
Input voltage:	12÷24 V ≈ ± 10%
Consumption:	80mA
PERFORMANCE:	
Linearity:	0.2%
Zero drift:	0.02%/°C referred to full scale
Full scale drift:	0.02%/°C referred to applied signal
Response time:	0.3 seconds at 63% of final value 1 second at 99.9% of final value
Insulation:	3kV at 50 Hz for 1 minute
Operating temperature:	-10°C...50°C (the maximum temperature in which electronics can operate).

Variation of jumper connections according to the chosen input and output relative retouch trimmers for start of scale and full scale.

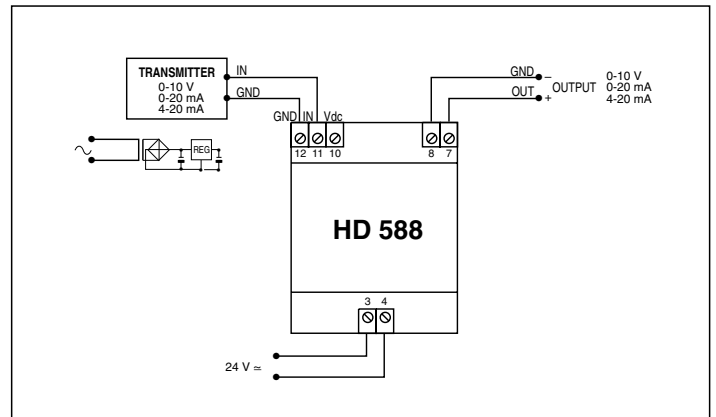
			SETUP OF JUMPER CONNECTIONS				TRIMMER*	
			J1	J2	J3	J4	START OF SCALE	FULL SCALE
1)	Input 0÷10Vdc: output	0÷10Vdc	A	A	A	A	RR1	RR2
		0÷20mA	A	A	B	A	RR1	RR2
		4÷20mA	A	A	B	B	RR1	RR2
2)	Input 0÷20mA: output	0÷10Vdc	B	A	A	A	RR1	
		0÷20mA	B	A	B	A	RR1	
		4÷20mA	B	A	B	B	RR1	
3)	Input 4÷20mA: output	0÷10Vdc	B	B	A	A	RR1	
		0÷20mA	B	B	B	A	RR1	
		4÷20mA	B	B	B	B	RR1	

\* Multiturn trimmers RR1, RR2 are needed for slight calibration adjustments. If not strictly necessary it is advisable not to operate them, calibration being already carried out in the laboratory.

### Connection diagram

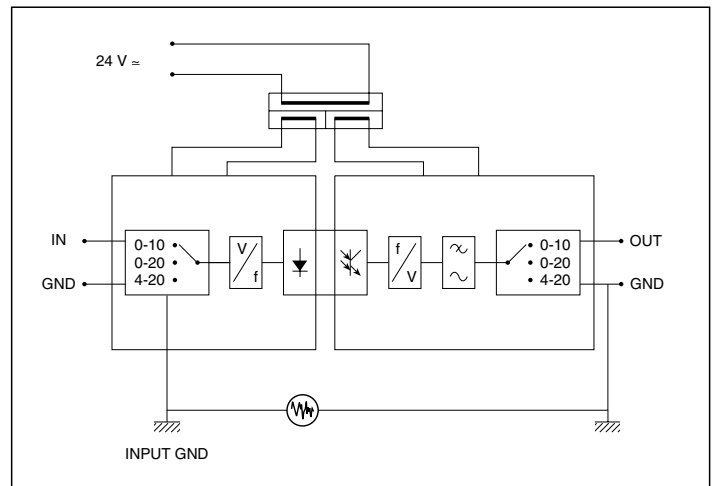


A) Transmitter not supplied, interface supplies transmitter and optoinsulates input output and power supply.



B) Transmitter supplied separately, interface optoinsulates input, output and power supply.

### Block diagram



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