

# Power supply and isolator ZS-30 for two-wire transmitters

- ✓ Universal power supply: 20...253 V AC/DC
- ✓ Full galvanic separation of circuits (IN-OUT, IN-SUPPLY, OUT-SUPPLY)
- ✓ Digital calibration of measurement chain IN-OUT
- ✓ Accuracy 0,1%

## Application and function

The ZS-30 power supply and isolator is designed to supply power to transmitters with a 4...20 mA signal in a two-wire transmission and to transform that signal through a galvanic separation circuit into one of the standard signals used in automatic control: 4...20mA, 0...20mA; 0...5mA; 0...10V, 0...5V, 1...5V, 2...10V. IN, OUT and SUPPLY circuits are galvanic separated.



## Technical parameters

### Input parameters

Supply voltage  $U_{IN}$  22,5 V  
 Input signal  $I_{IN}$  4 ÷ 20 mA

### Output parameters

Output signal $I_{OUT}$ , $U_{OUT}$	Load resistance $R_o$
4 ÷ 20 mA (standard version)	$R_o$ 0 ÷ 500 $\Omega$
0 ÷ 20 mA	$R_o$ 0 ÷ 500 $\Omega$
0 ÷ 5 mA	$R_o$ 0 ÷ 2 k $\Omega$
0 ÷ 5 V, 1 ÷ 5 V, 0 ÷ 10 V, 2 ÷ 10 V	$R_o$ $\geq$ 10 k $\Omega$

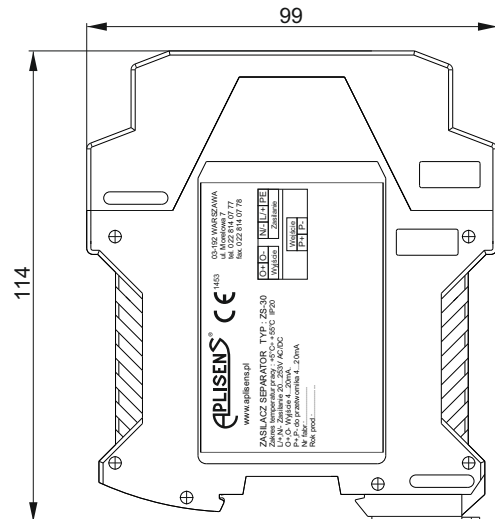
### Supply parameters

Power supply 20...253 V AC/DC  
 Test voltage between circuits 1,5 kV, 50 Hz  
 Power consumption  $\leq$  2 W  
 Supply current (starting) max. 0,6 A  
 (for  $U_{SUP} = 20$  V DC)

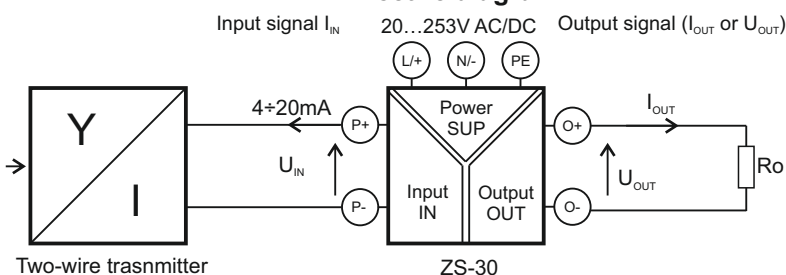
### Metrological parameters

Accuracy  $\leq$  0,1%  
 Effect of load resistance fluctuations  $\leq$   $\pm$ 0,05%  
 Effect of temperature fluctuations  $\leq$   $\pm$ 0,01% /  $^{\circ}$ C

Ambient temperature 5...55  $^{\circ}$ C  
 Ingress protection rating IP20  
 Weight < 0,15kg



## Electric diagram



## Ordering procedure

Standard version ( $I_{OUT}=4\div 20$  mA):  
**ZS-30**

Special version:  
**ZS-30/** \_\_\_\_\_

↑  
 Output signal