

# Z LINE • Converters / Isolators 17,5 mm housing

## Z170REG

Signal duplicator with universal input



**UNIVERSAL CONVERTER  
WITH  
DOUBLE ISOLATED  
OUTPUT**



**Power supply  
Input**

10–40 Vdc or 19–28 Vac (50Hz-60Hz)

**Thermocouple** (J,K,R,S,T,B,E,N)

**RTD** (PT100-500-1000-Ni100) with 2,3,4 wire connections

**Voltage** 0...+10V

**Current** 0/4...20mA

**Potentiometer** 1K $\Omega$  -100K $\Omega$

**Output**  
**Galvanic isolation**  
**A/D resolution**  
**Response time**  
**Configuration**

N.2 configurable channels (0..10V, 0/4...20mA)

1,5 Kvac (4-way)

14 bits

11 ms

Dip-switches, PC software



➔ For further information, please visit [www.seneca.it](http://www.seneca.it)

# Z170REG

Signal duplicator with universal input



## ORDER CODE

**Model** Z170REG Signal duplicator with universal input

**Programming Kit** S117P 1 Easy-Z109 software + USB adapter

## TECHNICAL FEATURES

### GENERAL FEATURES

<b>Power supply</b>	10–40 Vdc or 19–28 Vac (50Hz-60Hz)
<b>Channels number</b>	1 input, 2 outputs
<b>Thermal drift</b>	< 0.01%/°K
<b>A/D Resolution</b>	14 bits
<b>Galvanic isolation</b>	1.5 kVac, 4-way
<b>Removables terminals</b>	Yes
<b>Power consumption</b>	Max 2W
<b>Response time</b>	Configurable between: 11 ms («Fast» rejection=max velocity), 22.66 ms (rejection to 60Hz) or 26 ms (rejection to 50Hz)
<b>Programming</b>	-10..+65°C
<b>Dimensions (wxhxd)</b>	17,5 x 100 x 112 mm
<b>Housing, weight, colour</b>	PBT, 110 g, black
<b>Operating temperature</b>	-10..+65°C
<b>Connections</b>	DIP switches and PC software (EASY_Z109)
<b>Protection degree</b>	IP20
<b>Approvals</b>	CE, EN 61000-6-4, EN 64000-6-2, EN 61010-1

### INPUT

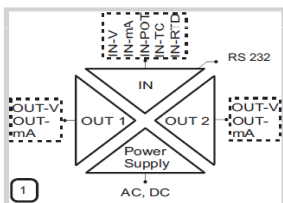
<b>Channels</b>	1
<b>Type</b>	<b>Voltage:</b> Scale range configurable from 0V to 10V. Input impedance: 120kΩ. <b>Current:</b> Scale range configurable from 0 mA to 20mA. Internal shunt: 50W. <u>ACTIVE/PASSIVE</u> <b>Potentiometer:</b> Scale range configurable from 1 kΩ to 100kΩ (with parallel resistor R= 330 Ω to connect externally). <b>Thermocouple:</b> for TC type J, K, R, S, T, B, E, N. <b>Thermoresistance:</b> RTD type, PT100, PT500, PT1000, NI100. Resistance measure (for 2,3,4 wire sensors)

### OUTPUT

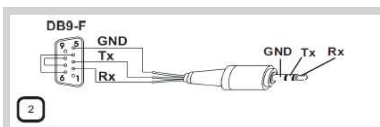
<b>Channels</b>	N.2
<b>Type</b>	<b>Voltage:</b> Configurable in the range 0-10 V (min resistance that can be connected: 20kΩ) <b>Current:</b> Configurable in the range 0/4-20 mA (max resistance that can be connected: 600 Ω, max 13V). <u>ACTIVE/PASSIVE</u>
<b>A/D Resolution</b>	14 bits

## INSTALLATION, CONNECTION, DIMENSIONS

### ISOLATION



### PROGRAMMING CABLE



### INPUT / OUTPUTS / POWER SUPPLY

