

## Universal Signal Isolator TRIM

- ◆ Input / output / supply triple isolation
- ◆ Accepts mA, mV, V, or Ω linear signals
- ◆ Positive and negative mA or V output
- ◆ Built-in digital filter
- ◆ Direct and reverse conversion
- ◆ Full digital technology – no analog adjustments
- ◆ DIN-rail case and 11-pin box for rail mounting

COMEKO's signal isolator TRIM is an active triple-isolated transmitter with separate isolated power supply with 1000 VAC isolation level. The input part is internally powered and generates 24 VDC excitation voltage for external devices connected to TRIM input (current loops, transmitters, etc.). The input may accept various mA, mV, V (unipolar and bipolar) as well as resistive linear signals. The output part is internally energized and generates standard or custom specified linear current or voltage (positive or negative) signals. Thanks to the use of high sophisticated electronics for its manufacturing, the TRIM isolator offers some special features that can be activated by the user via internal programming jumpers:

- direct or reversed conversion;
- upscale or downscale output status at input failure;
- custom specified non-linear conversions.

TRIM is available in a case for mounting on a 35 mm DIN rail according to EN50022 and in a convenient 11-pin box for socket mounting.



### Technical specifications

#### Input

<b>Linear current</b>	0...5 mA, 0(4)...20 mA
<b>Linear voltage</b>	0...50 mV, 0...100 mV, 0...1 V, -1...1 V, 0...2 V, 0...5 V, 0...10 V, -10...10 V
<b>Linear resistive</b>	0...1 kΩ
<b>Custom linear (option)</b>	min. -10...max. 10 V <sup>(1)</sup> , 0...max. 100 mA <sup>(1)</sup> , 0...100 Ω...100 kΩ <sup>(1)</sup> max. 10 Ω
<b>Current-input impedance</b>	min. 1 GΩ (1 MΩ for range span > 1.5 V)
<b>Voltage-input impedance</b>	> 1000 VAC for 1 min
<b>Input isolation</b>	> 1000 VAC for 1 min
<b>Output</b>	
<b>Linear current</b>	0(1)...5 mA, 2...10 mA, 0(4)...20 mA
<b>Liner voltage</b>	0...1 V, 0...2 V, 0(1)...5 V, 0(2)...10 V on request <sup>(1)</sup>
<b>Custom lineare (option)</b>	max. 620 Ω min. 1 kΩ <sup>(2)</sup> selectable
<b>Current-output load</b>	upscale or downscale, selectable
<b>Voltage-output load</b>	
<b>Direct or reverse conversion</b>	
<b>Output signal at input failure</b>	
<b>Output isolation</b>	> 1000 VAC for 1 min
<b>Excitation voltage</b>	24 VDC, max. 30 mA

<sup>(1)</sup> On request. Specify range additionally!

<sup>(2)</sup> Minimum 50 kΩ for negative output voltage ranges!

<sup>(3)</sup> Ordered separately (see 'Accessories').

### Ordering code TRIM - G0.G6.G11

Code	Feature or option	Code values
G0	Case	R1 - for rail mounting, R2 - 11-pin box
G6	Input signal	A - 0...5 mA, B - 0...20 mA, C - 4...20 mA, F - 0...50 mV, G - 0...100 mV, H - 0...1 V, H1 - -1...1 V, I - 0...2 V, J - 0...5 V, K - 0...10 V, K1 - -10...10 V, L - resistance, Z - other
G11	Output signal	B - 0...5 mA, C - 1...5 mA, D - 2...10 mA, E - 0...20 mA, F - 4...20 mA, G - 0...1 V, H - 0...2 V, I - 0...5 V, J - 1...5 V, K - 0...10 V, L - 2...10 V, Z - other