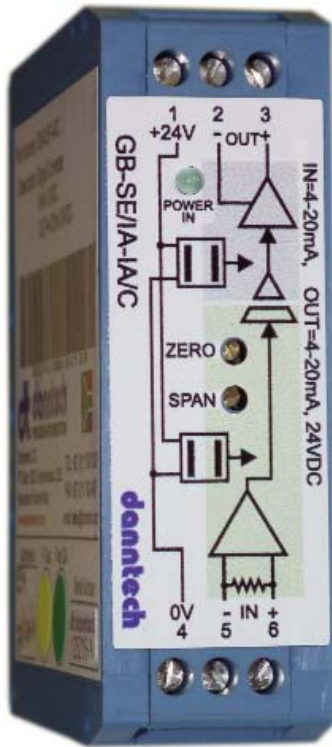




# ECO-LINE SIGNAL CONVERTERS



Danntech have been making signal converters in South Africa for more than 25 years - you can benefit from our experience and knowledge!

**Signal conversion, amplification and isolation.**

**Elimination of the effects of ground loops from distributed process signals.**

**Protection of measurement signals against interference such as generated by motors, contactors and power line surges for non-isolated devices and PLC inputs.**

**Process signal amplification in situations where the line impedance is too great to effectively drive the required instrumentation.**

designed and manufactured in South Africa

### Three easy ordering options:

**A** - order from our standard stock configurations

**B** - order from our detailed list of various options (more than 50 different inputs and more than 10 different outputs)

**C** - order the User Configurable Version (UCV) and you can configure the device to suit yourself.

### SPECIFICATIONS:

- Standard input and output signal ranges 4-20 mA and 0-10V.
- Input ranges, from 50 mV to 100 V, 1 mA up to 10 A DC.
- Output ranges, from 0-1 V to  $\pm 10$  V (0 to 100 mV on request), up to 22 mA .
- Bipolar input and output configurations.
- Customised input and output ranges on request.
- Selectable filtering options up to 60 seconds.
- Zero and span trimpots can be locked or disabled using a DIP switch.
- Wide or normal zero and span adjustment selection using a DIP switch.
- Input impedance of  $>100$  k $\Omega$  for the voltage input and 50  $\Omega$  for the current input models.
- Maximum input signals of 100 V for voltage input and 10 A for the current input.
- Output load  $>2$  k $\Omega$  for the voltage output and 500  $\Omega$  maximum for the current output.
- Step response approximately 200 mS.
- Linearity better than 0.1% of full scale.
- Auxiliary supply 24 VDC or 12 VDC  $\pm 5\%$ .
- Isolation between input, output and auxiliary power supply 1,000 VDC.
- Operating temperature -10°C to 70°C.
- 24 hour operational burn-in.
- Calibration sheet provided for each unit manufactured.
- DIN rail mounting with dimensions 25 x 80 x 85 mm (W x H x D).

### PART NUMBERING:

#### CURRENT INPUT

Selected options red and bold are stock items other versions available within a few days.

- 4 - 20 mA = A**  
 0 - 20 mA = B  
 $\pm 5.5$  mA = C  
 0 - 1 mA = D  
 0 - 5 mA = E  
 0 - 200 mA = L  
 0 - 1 A = M  
 0 - 5 A = N  
 0 - 10 A = P

0 - 30 mV = AO	$\pm 20$ mV = U	0 - 1 V = K
0 - 50 mV = B	$\pm 50$ mV = C	0 - 3 V = X
0 - 60 mV = Q	$\pm 75$ mV = AF	0 - 5 V = D
0 - 100 mV = H	$\pm 100$ mV = V	1 - 5 V = F
0 - 150 mV = I	$\pm 150$ mV = J	<b>0 - 10 V = A</b>
0 - 200 mV = S	$\pm 200$ mV = N	0 - 12 V = AN
0 - 800 mVA = A	$\pm 400$ mV = AB	0 - 15 V = T
0 - 1300 mV = AC	$\pm 1.25$ V = P	0 - 20 V = L
	$\pm 1.5$ V = R	0 - 24 V = AG
	$\pm 5$ V = E	0 - 30 V = M
	$\pm 10$ V = G	0 - 50 V = AE
	$\pm 20$ V = O	0 - 60 V = AM
	$\pm 50$ V = W	0 - 74 V = AQ
	$\pm 100$ V = AK	0 - 100 V = Y

#### VOLTAGE INPUT

- A = 4 - 20 mA**  
 B = 0 - 20 mA  
 D = 0 - 1 mA  
 E = 0 - 5 mA  
 F = 20 - 4 mA

#### CURRENT OUTPUT

- Auxiliary Power Supply**  
**C = 24 VDC**  
 D = 12 VDC

**Internal Configuration**  
 9 = standard internal configuration  
 (can be left out if = 9, the standard configuration)  
 Standard config: Trimpots - Enabled  
 Zero and Span - Normal  
 Filter Step Response - 1 sec

- A = 0 - 10 V**  
 D = 0 - 5 V  
 E =  $\pm 5$  V  
 F = 1 - 5 V  
 G =  $\pm 10$  V  
 K = 0 - 1 V

**Example:**  
 GB-SE/IA-VAC is  
 Input = 4-20 mA  
 Output = 0-10 V  
 Auxiliary Supply = 24 VDC  
 (Standard Internal Config)

#### VOLTAGE OUTPUT

Call us if you have special or unusual requirements, or need multiple channels, we have multi-I/O options available.



**danntech**  
 PROCESS INSTRUMENTATION

#### Danntech cc

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