DC Current & Voltage Transducers

Models Available

EDCC Auxiliary Powered DC Current
EDCV Auxiliary Powered DC Voltage

Product Features

- Isolated DC mA or DC voltage output
- Accuracy class 0.25
- Adjustable 'span' and 'zero'
- DIN rail mounting enclosure
- 4kV rms 50Hz 1 minute isolation between input / output / case / auxiliary
- Screw type terminals
- Fingerproof terminal cover included

DC voltage transducers measure DC voltage directly and the DC current transducers measure DC currents up to 10 Amps directly. Higher currents can be measured using a shunt and a DC voltage transducer.

The transducers convert the DC voltage or current signal (or DC millivolt value from the shunt) to either a DC mA or DC voltage output which is directly proportional to the input signal value. All DC transducers are powered from a large choice of AC or DC auxiliary power options.

The DC transducers offer isolation between the DC input signal and the DC output which can be used to prevent earth loops. The 4kV isolated output signals can then be fed to analogue meters, digital meters, PLC's or building management systems.

For converting DC signals to a proportional DC mA or DC voltage output

Specification

Reference Standard:
- IEC 688, BS 6253, VDE/VDI 2191

Accuracy:
- Class 0.25 (±0.25% f.s. max. error)

Input Current, *In*:
- 0-1mA to 0-10A direct connected
- 50, 60, 75mV shunt operated

Input Voltage, *Un*:
- 0-20mV to 0-600V direct connected

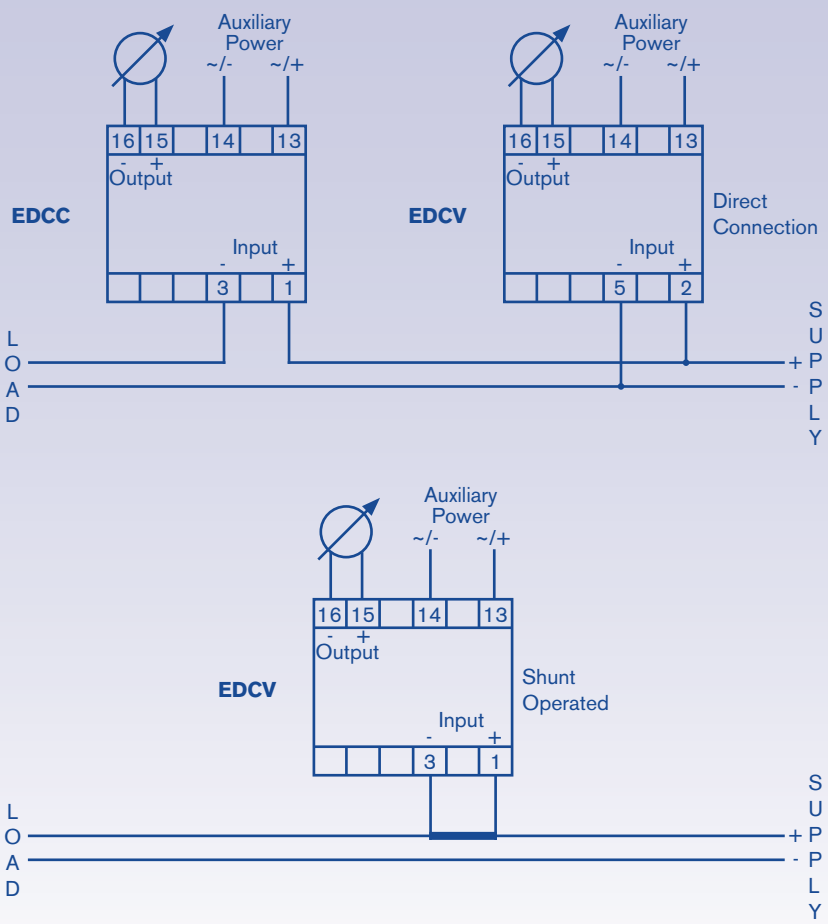
Overload:
- 1.2 x *Un*, 2 x *In* continuous
- 1.5 x *Un*, 30 x *In* for 1 second

Working Range:
- 0 - 120%*Un*

Burden:
- EDCC < 0.3VA
- EDCV < 0.2VA

Weight:
- EDCC, EDCV 600g

Connections



Ordering information

Model	Code	Description
	EDCC	Auxiliary Powered DC Current
	EDCV	Auxiliary Powered DC Voltage

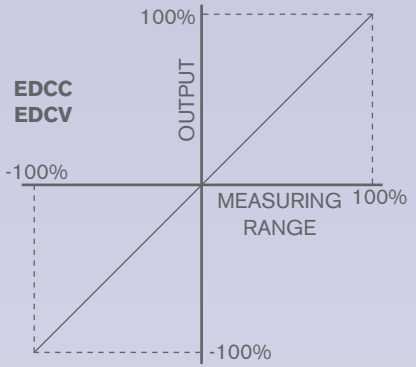
Input Voltage/Current	Code	Description
	CX	±1mA to ±10A (specify)
	CA	4-20mA
	VX	±20mV to ±600V (specify)

Auxiliary Power	Code	Description
	E1	110Vac (±20%)
	E2	230Vac (±20%)
	E3	415Vac (±20%)
	E4	63.5Vac (±20%)
	E5	24Vdc (±20%)
	E6	48Vdc (±20%)
	E7	110Vdc (±20%)

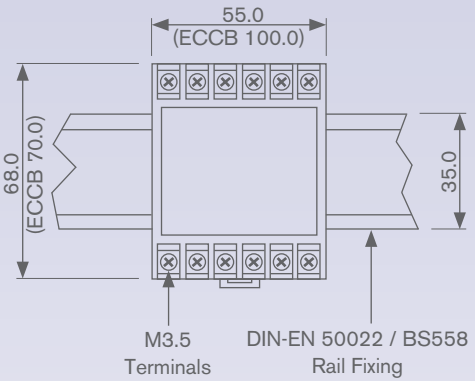
Output	Code	Description
	X1	±1mA
	X2.5	±2.5mA
	X5	±5mA
	X10	±10mA
	X20	±20mA
	XA	4-20mA
	XB	4-12-20mA
	XV	±Voltage (specify up to 15Vdc)

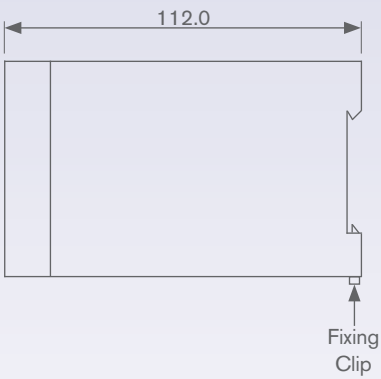
Example	EDCC - CX(5Adc) - E1 - XA

Function Graphs



Dimensions





All dimensions in mm

For pricing, or any further, information please contact Omni Instruments Ltd
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