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16 15 OUTPUT ELTIME BPAN	ð

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 test isolation between input / output / case / auxiliary
- Screw type terminals
- Fingerproof terminal cover included

DC Current & Voltage Transducers

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 Connections **Reference Standard:** Auxiliary Auxiliary IEC 688, BS 6253, VDE/VDI 2191 Power Power Accuracy: Class 0.25 (±0.25% f.s. max. error) Input Current, In: 14 16115 14 16 15 13 13 0-1mA to 0-10A direct connected Output Output - 50, 60, 75mV shunt operated Direct EDCC **EDCV** Input Voltage, Un: Connection Input Input - 0-20mV to 0-1000V direct connected 5 Overload: 3 1 2 S - 1.2 x Un, 2 x In continuous U 1.5 x Un, 30 x In for 1 second Р 0 Working Range: P А D - 0 - 120%Un Т **Burden:** EDCC < 0.3VA Auxiliary - EDCV < 0.2VA Power Weight: - EDCC, EDCV 600g 16 15 14 13 Output Shunt EDCV Operated Input 3 S U 0 Ρ Ρ Α D L Y

Web: www.eltime.co.uk

Ordering information

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

Input Voltage/Current	Code	Description
	СХ	± 1 mA to ± 10 A (specify)
	CA	4-20mA
	VX	± 20 mV to ± 1000 V (specify)

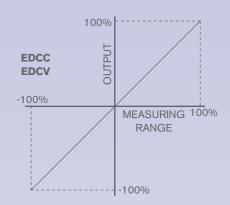
Auxiliary Power	Code	Description
	E1	110Vac (±20%)
	E2	230Vac (±20%)
	E3	415Vac (±20%)
	E4	63.5Vac (±20%)
	E5	24Vdc (±20%)
	E6	48Vdc (±20%)
	E7	110Vdc (±20%)
	E10	220Vdc (±20%)

Output	Code	Description
	X1	±1mA
	X2.5	±2.5mA
	X5	±5mA
	X10	±10mA
	X10B	0-5-10mA
	X20	±20mA
	XA	4-20mA
	XB	4-12-20mA
	XV	±Voltage (specify up to 15Vdc)

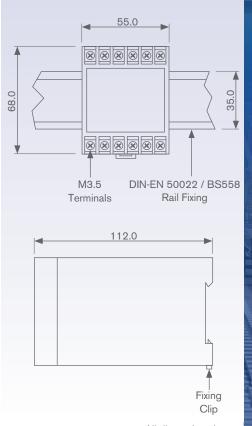
Example

EDCC - CX(5Adc) - E1 - XA

Function Graphs



Dimensions



All dimensions in mm

< 400ms for 0-90% of input value

±0.25% per year non-cumulative

Self powered voltage and current transducers have an adjustable span while all other units have an adjustable zero and span accessible from the front panel.

< 10kohm

< 3kohm 10mA < 1.5kohm 20mA < 750ohm Voltage output >1kohm

24 / 48 / 110V (±20%)

0.03%/°C (±0.5% maximum)

See individual specifications

Electrostatic discharge IEC801.2 (8kV) Electromagnetic fields IEC801.3 level 3 Fast transient bursts IEC801.4 level 4

0 - 95% non-condensing

-20°C to 65°C

-40°C to 75°C

< 15 minutes

1mA

5mA

< 1% peak full scale

2.5 mA < 6 kohm

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General Specification

Output

Response Time: Warm Up Time: **Residual Output Ripple:** Lona Term Drift: Maximum Load:

Auxiliary

AC: DC:

Environmental

Operating Temperature: Storage Temperature: Variation With Temperature: Relative Humidity:

Burden

Input Circuits: Auxiliary Power Supply: **EMC Compliance** Directive 89/336/EEC:

Surge withstand IEC255-5 Enclosure Enclosure: Grey ABS plastic with finger proof terminal covers Enclosure Code: Case IP50, terminals IP10 to IEC529 and BS5490 Test Isolation: 4kV rms 50Hz 1min (to IEC 414) between input / output / case / AC auxiliary (2kV rms 50Hz 1 min for EK energy transducers) 1kVdc / 600Vac between Watt & Var outputs (EPQ units) Continuous Operation Isolation: 800V rms 50Hz / 1kVdc between input / output / case / AC auxiliary 150Vdc output / DC auxiliary Mounting: 35mm DIN rail (DIN-EN 50022) CE marked Markings:

110 / 230 / 415V (±20%) (others upon request)

7VA combined Watt/Var transducers (4VA all other transducers)

Specification subject to change without notice.

Options

Non Standard Calibration

All transducers are supplied calibrated to standard input values as detailed in the individual specifications, however non-standard calibration input values can be specified (subject to technical viability).

Wide Output Adjust Switch on Power Transducers

All power transducers are available with a ten position switch accessible from the front panel which provides coarse adjustment of the output signal between 50% and 200% of the nominal.

Calibration Certificate

Calibration certificates traceable to national standards can be supplied on all transducers.

Conformal Coating

A conformal coating can be applied to the transducer circuitry during manufacture for transducers that will be operating in harsh environmental conditions.