

# DC Transducers for Current and Voltage

## Series D6DC

### APPLICATION

To measure DC inputs and deliver a proportional DC analogue output signal.

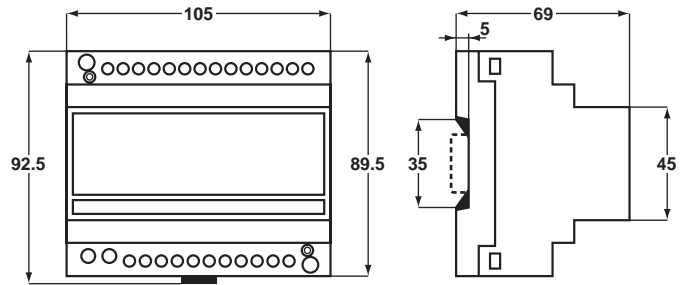


Series D6DC

### DESCRIPTION

Model D6DC is a DC/DC Transducer to measure DC current or voltage and deliver a proportional DC analogue output signal. The unit will also measure pulsed signals with frequency greater than 10Hz. Suitable for base or DIN Rail Mounting. Outputs may be bi-directional.

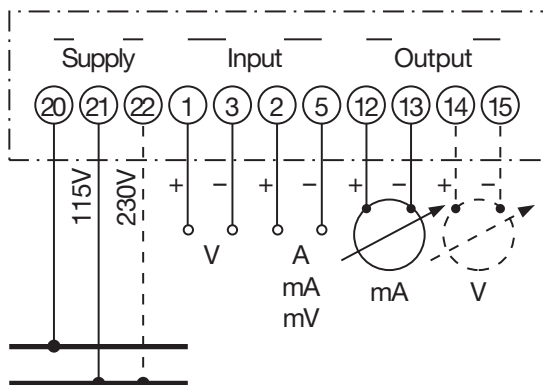
### DIMENSIONS



Measured Parameter	Current	Voltage
Model	D6DC	D6DC
(In) Input (Vn)	0 - 500µA to 0 - 1.5A (0-250µA to 0-750mA bi-directional)	0 - 10mV to 0 - 600V (0 - 5mV to 0 - 300V bi-directional)
Voltage Drop/Input Impedance	≤ 1V (In ≤ 500mA), ≤ 0.5V (In > 500mA)	≥ 100kΩ (Vn ≤ 1V), ≥ 1MΩ (Vn > 1V)
Output	0-5mA    0-10mA    0-20mA	4-20mA    0-5V    0-10V
Load Impedance	≤ 3kΩ    ≤ 1.5kΩ    ≤ 750Ω	≤ 750Ω    ≥ 5kΩ    ≥ 5kΩ
Measuring Range	0 - In or In - 0 - In	0 - Vn or Vn - 0 - Vn
Accuracy class	Class 0.5	
Overload	2 In continuous 10 In/1s	1.2 Vn continuous 2 Vn/1s (max 650V)
Response Time	≤ 300msec	
Ripple	≤ 1%	
Auxiliary Supply	115/230V ac 50/60Hz ± 10% (≤ 5VA)	
Insulation Input/Output/Aux	2kV 50Hz/1mn	
Impulse	5Kv 1.2/50ms	
Insulation: All circuits/earth	4 Kv/1 50Hz/1 min	
Electromagnetic Compatibility	Immunity to electrostatic discharge (IEC801-2) – Severity Level 4 Fast transient burst (IEC801-4) (Severity Level 4)	
Wiring Diagram	S250/80	
Weight	380g	

### WIRING DIAGRAMS

S250/80



### SPECIAL NOTE

For DC inputs over 1.5A use transducer with input 60mV, 100mV or 150mV with a suitable shunt. See Page 62.

Terminals: Screw terminal

#### Information Required With Order

• Model reference • Input • Output signal • Auxiliary supply  
 Example: DC/DC Transducer, Type DCDC, Input 0 - 300V dc, Output 4 - 20mA, Auxiliary supply 115/230V 50Hz