## LVDT/A & LVDT/D

# Amplifier / Signal Conditioner

#### **Features**

- Sensor excitation
- Selectable sensitivity
- High frequency filtering
- User selectable analogue outputs



#### Introduction

The LVDT/A & LVDT/D provide a wide range of signal conditioning for LVDT transducers.

Offered in two versions, the LVDT/A for 115/230V AC or 18-24V DC operation and the LVDT/D which is DC powered only. Transducer sensitivities between 20mV and 10V are accommodated by a combination of DIL switch settings and a fine trim potentiometer.

Similar arrangements are provided for any 'zero' errors in the transducers and can be used to offset the readings by up to ±35% of full scale.

A wide frequency response is offered, of typically DC to 200Hz. There is an on-board low pass filter which can be switched in to reduce high frequency fluctuations or induced electrical noise, to give stable readings under adverse conditions.

A wide range of output options for current, and uni-polar or bipolar voltage can be configured by DIL switch settings. Both the AC and DC versions are based on a common board and are mounted in a light grey ABS case sealed to IP65 standard.

### **Specifications**

Parame	eter
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Connections Enclosure Controls

Minimum	Typical	Maximum	Units
99/198	110/230	126/253	\ V AC
18	24	28	V DC
138	145	150	mA (200R)
-	4.5	-	V rms
1	-	5	kHz
50	200	-	Ohms
0.02	-	10	V
-	-	25	% FSD
-	-	10	% FSD
-	-	30	% FSD
0	-	2	mA
-	-	500	Ohms
5	-	200	Hz
-	2	4	μV/ºC
-	0.01	0.015	% / °C
-	0.05	0.1	% FSD
-	0.2	0.4	% FSD
-	6	10	μV
0	-	50	°C
-20	-	70	°C
-	-	95	%
-	3	7	mV p-p
±10V, ±5V, 0 - 10 V, 0	- 5V, 0 - 20mA, 4 -20mA.	NB: Current output is li	nk selectable for
	99/198 18 138 - 1 50 0.02 0 - 5 0	99/198 110/230 18 24 138 145 - 4.5 1 - 50 200 0.02	99/198     110/230     126/253       18     24     28       138     145     150       -     4.5     -       1     -     5       50     200     -       0.02     -     10       -     -     25       -     -     30       0     -     2       -     -     500       5     -     200       -     2     4       -     0.01     0.015       -     0.2     0.4       -     6     10       0     -     50       -20     -     70

±10V, ±5V, 0 - 10 V, 0 - 5V, 0 - 20mA, 4 -20mA. NB: Current output is link selectable for

source or negative sink (common negative or common positive)

Field screw terminals - 2.5mm² rising clamp ABS case 160 x 80 x 55 sealed to IP65 fitted with 3 off cable glands

Gain pot, Offset pot, Coarse gain switches Coarse offset switches, Filter cut-off switches Frequency select switch, Output mode switch **Order Codes** 

LVDT/A Analogue Conditioner AC powered LVDT/D Analogue Conditioner DC powered

**CE & Environmental** 

Relative humidity 95% maximum non condensing European EMC Directive 2004/108/EC Low Voltage Directive

2006/95/EC

#### **Dimensions**

160 x 80x 55mmDepth







In the interest of continued product development, Mantracourt Electronics Limited reserves the right to alter product specifications without prior notice.

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