E308/9 Analogue Amplifier With Digital Display / Panel Meter

Compatible with
Most full bridge strain gauge transducers
Most amplified transducers from any manufacturer

Compatible with
Any standard RDP LVDT (without integral electronics).
Most LVDTs from any manufacturer.

- LVDT amplifier
- Strain gauge transducer amplifier
- Digital display module
- Voltage / 4-20mA output
- Limit trips
- Simple trimpot controls

Signal conditioning is required where the output of a transducer needs to be boosted or changed into a form suitable for the monitor or logging device which will be used. Our digital display units have a built-in monitor device in the form of the digital display as well as analogue output.

Both E308 and E309 have high and low limits with voltage-free relay outputs. The E308 has a shunt calibration facility to enable calibration checks to be made.

A very wide range of gain adjustment ensures that our amplifiers are compatible with the vast majority of LVDT and strain gauge sensors available from any manufacturer.

Although they have a digital display, these units are entirely analogue and are configured using switches and potentiometers, there is no set-up software to learn.

Specification			
Type		E308	E309
Ac supply version		240Vac/120Vac (+5/-20%), 50/60Hz 10VA	240Vac/120Vac (+10/-20%), 50/60Hz 10VA
Compatible with		Most full bridge strain gauge transducers Most amplified transducers from any manufacturer	Any standard RDP LVDT (without integral electronics). Most LVDTs from any manufacturer.
Number of digits		4 ½, red LED (11mm)	4 ½, red LED (11mm)
Display update rate		2.5Hz	2.5Hz
Transducer excitation		1.2V to 15V & -15V, 60mA	5V, 5kHz (1kHz to 10kHz with component change), 100mA
Signal input range		5mV to 90V	50mV to 20V
Output details		±10V / 4-20mA (loop resistance 0 Ohms to 500 Ohms)	±10V / 4-20mA (loop resistance 0 Ohms to 500 Ohms)
Electrical output bandwidth		0 to 150Hz (3Hz with filter turned on)	0 to 300Hz
Input impedance		2M Ohms	100k Ohms
Linearity error		±0.02% F.S. typical	±0.1% F.S.
Output ripple (peak-to-peak)		10mV typical / 30uA typical	5mV typical / 10uA typical
Temperature coefficient (zero)		±0.01% F.S. /°C (typical)	±0.01% F.S. /°C (typical)
Temperature coefficient (span)		±0.01% F.S. /°C (typical)	±0.01% F.S. /°C (typical)
Limit trips	Number of channels	2	2
	Operation time	5ms	5ms
	Contact rating	24Vdc (1A) / 120Vac (0.3A)	24Vdc (1A) / 120Vac (0.3A)
Operating temperature range		0°C to 50°C	0°C to 55°C
Total weight		1.3kg	1.3kg

All dimensions and specifications are nominal.

Due to our policy of on-going development, specifications may change without notice. Any modification may affect some or all of the specifications for our equipment.

USA & Canada
RDP Electrosense
2216 Pottstown Pike
Pottstown, PA 19465
USA
Tel: 610-469-0850
Tel: 800-334-5838
Fax: 610-469-0852
Email: info@rdpe.com

Rest of the world
RDP Electronics Ltd
Grove Street, Heath Town
Wolverhampton, West Midlands, WV10 0PY
United Kingdom

Tel: +44 1902 457512
Fax: +44 1902 452000
Email: sales@rdpe.com
URL: www.rdpe.com