

<b>DC Voltage to Voltage Isolating Signal Converters MIN904, MIN907 &amp; Min908</b>		<b>Iss 1</b>
<p><b>Function:</b> The MIN904, 907 and 908 are 12 Volt DC powered Isolating Signal Converters with 2 Open Collector Alarm Outputs.</p> <p>The instrument can accept either a 75mV(MIN904), 20V(MIN907) or 40V(MIN908) factory set input signal. This signal is pre-amplified and conditioned with Zero and Span adjustments in the input stage. The conditioned signal is opto-isolated and amplified to give a 0 to 5V DC isolated output proportional to the input signal.</p>		<b>Sep 09</b>

<p><b>SPECIFICATIONS</b></p> <p><b>INPUTS:</b></p> <p><b>D C Voltage</b>  0 to 75mV DC 5M ohms or greater (MIN904)  0 to 20V DC 1M ohm or greater (MIN907)  0 to 40V DC 1M ohm or greater (MIN908)</p> <p><b>Isolation</b>  Input Fully Floating Isolation 600 Volt AC</p> <p><b>OUTPUTS:</b></p> <p><b>DC Voltage</b>  0 to 5 Volt DC into 10K ohms minimum</p> <p><b>Alarm Outputs</b>  2 x Open Collector Outputs  Common to selective +ve or -ve supply rail.</p> <p><b>Contact Ratings</b>  Maximum sink or source current 100mA</p> <p><b>Switching Differential</b>  &lt;=0.5% of span approx</p> <p><b>Switching Mode</b>  Link Selectable - High or Low for Alarm with Outputs  ON or OFF for NORMAL, NPN or PNP Output  Operation</p>	<p><b>Set Point</b>  2 x blind screwdriver operated multi-turn potentiometers. Adjustment range 2 to 100% of full scale. Setting resolution <math>\pm 0.2\%</math></p> <p><b>SUPPLY:</b></p> <p><b>Power Supplies</b>  +10 to +14.7 Volt DC  with inverter to maintain signal to power supply isolation</p> <p><b>Power Required</b>  Burden 10mA max at 12 Volt DC</p> <p><b>Power Supply Variation Effect</b>  <math>\pm 0.1\%</math> max change in output for a supply variation between 10V and 14.7V</p>	<p><b>GENERAL:</b></p> <p><b>Linearity</b>  <math>\pm 0.1\%</math> of Full Scale</p> <p><b>Output Ripple &amp; Noise</b>  50mV Peak to Peak Maximum</p> <p><b>Ripple &amp; Noise Rejection</b>  Series Mode 40dB at 50Hz  Common Mode 120dB at 50 Hz</p> <p><b>Response Time</b>  Analogue Output: &lt;400mS for Output changing from 10 to 90% of Full Scale  Digital Output: &lt; 1 second including analogue response time</p> <p><b>Temperature Coefficient</b>  <math>\pm 0.1\%</math> of span/_ 10°C  (for inputs &gt; 100mV)</p> <p><b>Operating Temperature Range</b>  0 to +45°C</p> <p><b>Storage Temperature Range</b>  -20 to +60°C</p> <p><b>Operating/Storage Humidity Range</b>  0 to 95% RH non-condensing</p> <p><b>Weight</b>  195 gms (approx)</p>
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## MECHANICAL DETAILS


The image shows three mechanical views of the MIN 904 Voltage Transmitter. The top view shows a terminal block with 16 pins, labeled 1 through 16, and a warning label. The front view shows the unit with a label that reads 'MIN 904 VOLTAGE TRANSMITTER INCLUDING TWO ALARMS' and 'LEE-DICKENS LTD'. The side view shows the unit's profile with a depth of 35.00. The top view dimensions are 55.00 (width) and 75.00 (height). The front view dimensions are 110.00 (width) and 35.00 (height).

## TERMINAL DETAILS

### Terminal

1	Input -ve	9	NPN	Trip 1
2	Input +ve	10	PNP	Trip 1
3		11	NPN	Trip 1 (0v)
4		12	PNP	Trip 1 (12v)
5		13	PNP	Trip 2 (12v)
6	Power Supply +ve	14	NPN	Trip 2 (0v)
7	Output +ve	15	NPN	Trip 2
8	Power Supply/Output -ve	16	PNP	Trip 2

<p><b>ORDERING DETAILS</b></p> <p>a) Give identification code, i.e. MIN904</p> <p>b) Give details of alarm settings, i.e. High or Low</p>
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	<p>LEE-DICKENS LTD, Rushton Road, Desborough, Kettering, Northants, NN14 2QW Tel: 01536-760156</p>
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