

# LMM Designs Flow Meter Head Mounted Lineariser LIN

<b>Basic Description</b>	The head mounted electronics will amplify and linearise any flow meter output then process the information to a 0-10VDC or 4-20mA linear signal and a 0-4800Hz linear frequency, at a speed of 1.5 to 2.5 milliseconds. Comprehensive software, graphical editing, down load and upload to LIN board.
<b>Power</b>	9 to 32 Vdc, 450mW, reverse polarity protection
<b>Flow Meter Input</b>	Three types are supported as standard and can be Configured by the customer by plugin link on the PCB
<b><i>Rf</i></b>	range 1 Hz to 4 kHz, RF 1mH, other RF sensors by request DC resistance 10 to 13 Ohm Oscillator frequency 45 to 55 kHz OEM versions for different pickoffs
<b><i>Sine</i></b>	10mV to 10V P-P direct mag interface
<b><i>Pulse</i></b>	Standard voltage pulses low level <1.5V High level >3V to 30V, 1-32000Hz input Impedance =>10,000 Ohms.
<b>Linearisation</b>	Flow meter signal input, 2 to 32 points of linear interpolation Organised as Frequency verses Flowrate.
<b>Output Update Time</b>	Programmable from 0 to 3.5 seconds
<b>Zero Cut off</b>	Programmable from 0 to 3.5 seconds
<b>Outputs</b>	
<b><i>Frequency</i></b>	Linearised frequency 0 to 5 V pulse, NPN reference 0V Full scale frequency range 50 to 4800 Hz Impedance: $\leq 2.2$ kOhms Accuracy: $\leq 0,1$ % of reading, resolution 0,018 Hz/step linearization latency 1.5 –2.5 msec + period of input
<b><i>Analogue</i></b>	0-10 Vdc, linearised, scaled for flowrate Zero offset $\leq 10$ mV, accuracy: $\leq 0,1$ % of full scale 16 bit, resolution 0.16 mV Optional 4-20mA plug in board.
<b>Communication</b>	RS232, Baud rate: 19200 Windows 95 to Windows 7 Data input: manually / electronically Data output: Full data file stored in board and on disk.
<b>Environment</b>	Temperature: Operating – 40 to + 85 °C, storage -55 to + 125 °C Humidity: 0 to 85 % RH non-condensing
<b>CE Approval</b>	EN50081-1, EN50082-1, EN61010