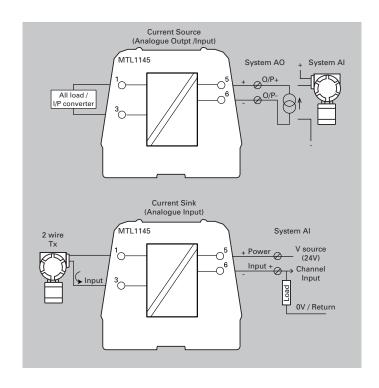
# MTL1145 loop powered current repeater

# 1 channel for 4-20mA analogue outputs/inputs

The MTL1145 is a single channel isolator which accepts a 4-20mA output source, isolates and repeats the signal. The repeated signal is loop powered from the original signal source. (Source mode). Alternatively a loop powered transmitter may be powered via the isolator from a 2 wire system input. (Sink mode)



Terminals	Current Source Mode	Current Sink Mode
1	Output +	Sink input +
3	Output -	Sink return
5	Current input +	Sink output +
6	Current input -	Sink output -

SPECIFICATION		
See also common specification		
Number of channels	One with fully floating output	
Location of equipment	Safe area	
Input signal	0-22mA	
Output signal	0-22mA	
Output voltage available	Input voltage – 7.5V max	
Over-range	>110%	
Response time	5mS	
Transfer Accuracy at 20 °C (4-20mA)	±80μA 100-600Ω load source mode, ±165μA sink mode	
Temperature drift	<0.01% /°C	
Power supply voltage	10V to 32V DC	
Maximum power dissipation within unit	<0.16W	
Isolation	250V ac or dc functional isolation between power, field and system circuits. (Tested to 1100Vac)	



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