

PANEL MOUNTED LOOP POWERED INDICATOR

DM420 SERIES

- LOOP POWERED
- ONLY 1 VOLT FROM LOOP (DM420)
- 2 YEAR WARRANTY
- IP65 FRONT PANEL SEAL



INTRODUCTION

The DM420 is a panel mounted loop powered digital indicator that is designed to connect in series with a (4 to 20) mA current loop, and display the value in engineering units.

The DM420 is housed in a (96 x 48) mm DIN standard panel mounted case and provides 12.7 mm high LCD digits in the range ± 1999 with a selectable decimal point.

Adjustable Zero and Span scaling enables the instrument to be scaled in Engineering units.

The design of the instrument means that it need no external power supply and requires only 1 volt from the loop for correct operation.

The DM421 is a low cost version identical to the DM420 except that it requires 3 volts from the loop. Scaling is set by a combination of push on links and Span and Zero Potentiometers. Units are factory calibrated to the range ordered, but can be re-calibrated on site.

SPECIFICATIONS @ 20 °C

INPUT	(4 to 20) mA two wire (reverse polarity protected)		
	DM420	DM421	
Max Current	± 125	± 63	mA
Min. Operating Current	3.8	3.8	mA
Max. Loop drop @20 °C	1.0	3.0	V
Loop Ripple	20	n/a	mA
Fuse Protection	125	63	mA
Display	LCD, 3 digit 12.7 mm LCD		
Display Range	-1000 to +1999 3 ½ counts digit		
Offset	-1000 to +1000 counts at 4 mA		
Span	200 to 2000 counts (16 mA change)		
Decimal Point	3 positions plus blank		
Accuracy	$\pm 0.1\%$ rdg, ± 1 count		
Offset Stability	0.2 %/ °C maximum		
Span Stability	0.2 %/ °C maximum		
Sample Rate	3 readings per second		
Ambient	(0 to 50) °C operating		

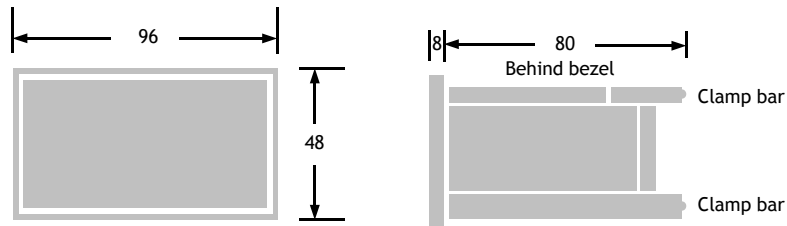
MECHANICAL	
Weight	0.2 Kg
Panel Cut-out Size	(92 x 44) mm

The DM420 is held in the panel by two metal clamp bars, on diagonally opposite corners, fitted from the rear. A gasket is available, and should be fitted whenever sealing of the instrument is required.

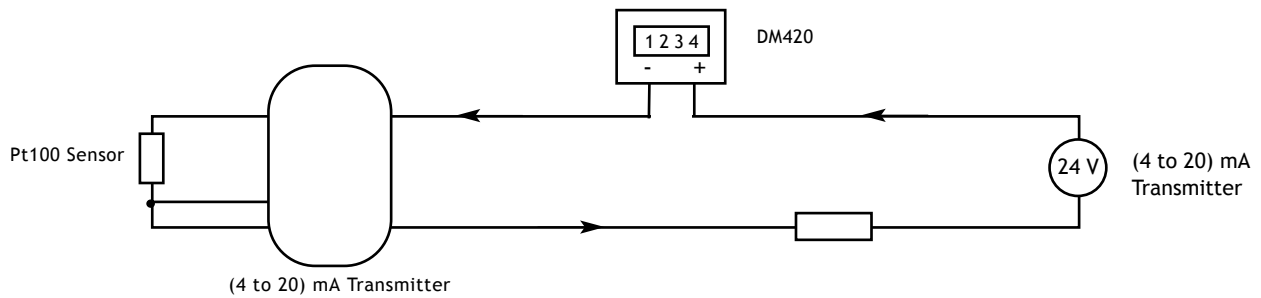
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MECHANICAL DETAILS

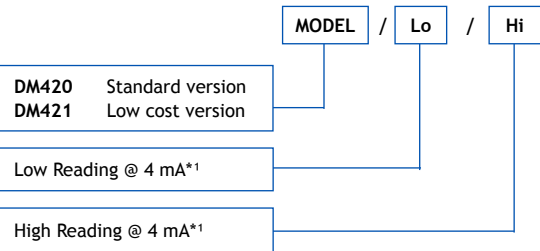
(All dimensions in mm)



TYPICAL APPLICATIONS



ORDER CODE



Example DM420 / 50 / 250 -
This unit has a span of 200. Ranged (50 to 250).

*NOTES:
1. If not specified, unit will be calibrated (0 to 100.0) %

ACCESSORIES:
IP65 front face sealing gasket (pack of 10); ACC 4000-06
Adaptor plate ¼ to ⅜ DIN.