DM700I LOOP POWERED INDICATOR

>	(4 to 20) mA LOOP POWERED
>	PUSH BUTTON PROGRAMMING
>	CUSTOM LINEARISATION
>	4 DIGIT LED DISPLAY
>	DM700XI ATEX OPTION



The DM700 is a loop powered indicator which incorporates a high efficiency LED display. Designed for use with our SCH4 ABS heads and SCH15 stainless steel head (non ATEX) available. The units are sealed to IP67.

The DM700I is microprocessor based and set-up is achieved by means of three push buttons, located on the back of the display module inside the housing. By following a simple menu structure, this device can have a number of standard linearisations applied, such as square root, or a custom characteristic can be entered.





LOOP POWERED

The instrument is powered by the (4 to 20) mA loop current and can be connected at any point in the control loop circuit. The DM700I draws a minimal load from the loop needing no additional power supply.

ATEX

An ATEX version is available for use in hazardous gas and dust areas (ABS housing only).

ADJUSTABLE RESOLUTION

Display resolution to 0000, 000.0, 00.00 or 0.000

TEMPERATURE TRANSMITTER COMPATIBLE

As well as working with any (4 to 20) mA signal the DM700I has space inside its housing to mount a standard 33 mm centre, head mount, (4 to 20) mA temperature transmitter.

Any of the Status Instruments range of temperature transmitters can be used with the DM700I to give a local temperature display.

HART TRANSPARENT

If connected to a HART (4 to 20) mA control loop HART messages will pass through the DM700I.



DM700I LOOP POWERED INDICATOR

ELECTRICAL INPUT		SPECIFICATIONS @20°C				
mA						
Type/ options/ function	Range	Accuracy/ stability/ notes				
(4 to 20) mA	> 3.8 mA to < 21.0 mA	± 0.02 % of full scale				
Loop voltage drop		< 4.0 V @ 20 mA				
HART transparent		Yes				
Maximum current *1	To avoid permanent damage	90 mA for < 60 s				
Protection		Reverse current				
Thermal drift	Zero	± 0.002 %/ °C				
	Span	± 0.01 %/ °C				
*1 Fuse protection for the cu	rrent loop is highly recommended					

Type/ options/ function	Description
Display height	7.6 mm
LED	4 digits, high intensity, red
Range	-1999 to 999
Decimal place	Programable 0000, 000.0, 00.00, 0.000
Update rate	250 ms

PUSH BUTTON CONFIGURATION USER INTERFACE				
Type/ options/ function	Description	Notes		
Linearity	Linear, square root, X ³ / ₂ , X ⁵ / ₂ pairs)	or user interpolation (20 co-ordinate		
Scaling	Mode Engineering unit value	Standard or automatic Low and high engineering values		
	Segments for interpolation	mA to engineering value pairs Maximum of 20		
Offset		In engineering units		
Menu time out		60 s or 1 hour		
Display resolution		1, 0.1, 0.01, 0.001		
Passcode	Menu lockout	4-digit number		

ENVIRONMENTAL		
Function	Description	
Ambient temperature	Operating (-20 to 75) °C: Storage (-50 to 85) °C	
Ambient humidity	(10 to 90) % RH non-condensing	
Protection	IP67, cable/ probe entries must be sealed to IP67 to maintain	
Connections	Screw terminal, 1.5 mm ² maximum wire size	

MECHANICAL	
Function	Description
Enclosure	ABS grey base, grey clamp ring
Display cover	Polycarbonate, clear
Case entries	See ORDER CODES below
Weight (approximate)	150 g



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APPROVALS		
Function	Description	
EMC	BS EN 61326	
Ingress protection	BS EN 60529	
RoHS	Directive 2011/65/EU	
ATEX: DM700XI only	ATEX II 1G EEX ia IIC	

MECHANICAL 2 x side entry B type body







DM700 ORDER CODE For ATEX add Case type Entry options Side 1 Side 2 Х Base entry **DM700** Entry option 16 = M16Α 00 00 I 20 = M20**DM700** I В 00 Entry option Entry option 24 = M24DM700 I С Entry option Entry option 00 $BP = \frac{1}{2}$ "BSP $NT = \frac{1}{2}$ "NPT DM700/ = nonA = 1 x side entry **ATEX version** B = 2 x side entryC = 1 x side entry + 1 x base entryDM700/X = ATEX00 = no entryversion Example, non ATEX, 1 x M24 base entry with 1 x M20 side entry **DM700** /24 Т /C /20 /00 For further options please contact sales@status.co.uk

To maintain full accuracy annual calibration is required contact support@status.co.uk for details The data in this document is subject to change. Status Instruments assumes no responsibility for errors

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