

LOOP POWERED INDICATOR

DM700/I

- > (4 TO 20) mA LOOP POWERED
- > FULLY PROGRAMMABLE BY PUSH BUTTONS
- > CUSTOM LINEARISATION
- > 4 DIGIT LED DISPLAY
- > ATEX APPROVED



INTRODUCTION

The DM700 is a Loop Powered Indicator which incorporates a high efficiency LED display. Designed for use with our SCH4 heads, the units are sealed to IP67. ATEX versions are available for use in hazardous areas using the SCH4 head.

The unit is microprocessor based. Set up is achieved by means of three push buttons located on the underside of the module 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.

SPECIFICATIONS @ 20 °C

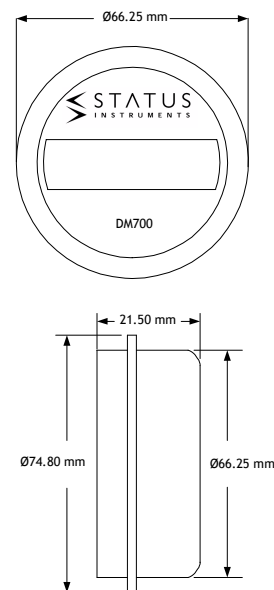
GENERAL

Display	4 digit LED
Ambient	(-20 to 75) °C
I.S (option)	ATEX II 1G EEx ia IIC
Ambient Storage	(-50 to 85) °C
Ambient Humidity	(10 to 90) % RH
EMC Emissions	BS EN61326
EMC Immunity	BS EN61326
Input	(4 to 20) mA input
Range	-1999 to 9999 decimal point selectable in any position
Linearisation	Linear, Square root, Power 3/2, Power 5/2, User
User Characteristic	Up to 20 pairs by straight line interpolation
Accuracy	± 0.01 % FS
Hart Transparent	Yes
Power	Loop powered
Loop Drop	< 4.0 V @ 20 mA

MECHANICAL

GENERAL

Connections	Screw terminal
Maximum Wire Size	1.5 mm ²
Environmental Rating	IP67 when in appropriate enclosure



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CONFIGURATION

- Security passcode protection.
- Linearity type; linear, square root, $X^{3/2}$, $X^{5/2}$ or user interpolation.
- Input scaling; the displayed PV values that correspond to the mA input signal.
- Input scaling type; manual (user edits (4 to 20) mA PV values via keypad) or automatic (user applies hi / lo mA signals, then device performs auto-scale).
- User interpolated data; up to 20 co-ordinate pairs.
- User offset; intended to offset the displayed PV by a user-configurable amount.
- Display resolution; 1, 0.1, 0.01 or 0.001 °C.
- Configuration menu time out adjustment.
- Reset to factory default.
- Easy on-site re-calibration when required.

SCH4 ENCLOSURE MOUNTING



ORDER CODE

MODEL

BODY STYLE

BASE

SIDE ENTRY A

SIDE ENTRY B

DM700/I Cap only Standard version
DM700X/I Cap only IS Version (not available with the SCH15)

A SCH4 Enc. Single Side Entry
B SCH4 Enc Two Sided Entry
C SCH4 Enc Side and Base Entry

00 Blank
16 M16
20 M20
24 M24
0.5 1/2" BSP