

LOOP POWERED LED INDICATORS

DM700I and DM720

- PUSH BUTTON PROGRAMMING (NO REFERENCE SIGNAL REQUIRED)
- LOOP POWERED
- 4 DIGIT LED DISPLAY
- LOCAL TRANSMITTER DISPLAY
(Pressure, Level, Flow, Temperature, RH, etc.)
- HART TRANSPARENT
- PUSH BUTTON USER TRIM



INTRODUCTION

The **DM700I** Cap is a two wire current loop indicator that is powered by the 4 to 20 mA DC process signal it is displaying. The face of the Cap houses a 4 digit red LED display. The back contains the screw terminal connections and three push buttons used to program and calibrate the unit by means of a simple menu. The menu allows the user to select units, input/output scaling, offset, decimal point position, and password protection. The DM700 I contains several linearizations which can be applied to display: square root, x 3/2, x 5/2 or a user defined 19 segment linearization curve. The entire DM700 I is sealed in a Cap that fits directly into the SCH Series of NEMA 4X and Explosion Proof housings. Housings have provisions for including temperature transmitters.

SPECIFICATION @ 68°F

GENERAL

| | |
|---------------------|--|
| Display | 4 Red Digit LED |
| Range | -1999 to 9999 Decimal Point Selectable in any position. |
| Ambient | -4 to 167°F |
| I.S. Approval | ATEX II 1G EEx ia IIC (optional) |
| Ambient Storage | -58 to 185°F |
| Ambient Humidity | 10 to 90% RH |
| EMC Emissions | BS EN61326 |
| EMC Immunity | BS EN61326 |
| Input | 4 to 20 mA Input |
| Linearization | Linear, Square Root, Power 3/2, Power 5/2, User Defined |
| User Characteristic | Up to 20 pairs by straight line Interpolation. |
| Accuracy | ± 0.02% FS |
| HART Transparent | Yes |
| Power | Loop Powered |
| Loop Drop | < 4.0 VDC @ 20 mA |
| Approvals | BS EN 61326 |

MECHANICAL

| | |
|----------------------|--------------------------------------|
| Connections | Screw Terminals |
| Maximum Wire Size | 16 AWG Maximum |
| Environmental Rating | NEMA 4 when in appropriate Enclosure |
| Material | ABS |



INTRODUCTION

The **DM720** is a compact panel mounted loop powered indicator that is designed to connect in series with a 4 to 20 mA current loop and display the value in engineering units. The DM720 is housed in a 48mm x 24mm DIN standard panel mount case and provides 10mm high LED digits. The engineering range is programmed by using easily accessible push buttons. The design of the product means no external power supply is needed and it requires less than 5VDC from the current loop.

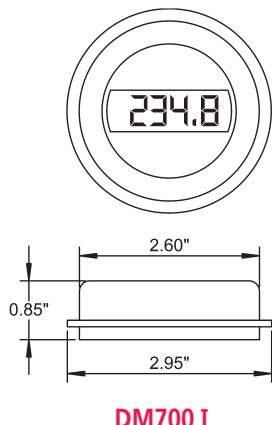
SPECIFICATION @ 73°F

GENERAL

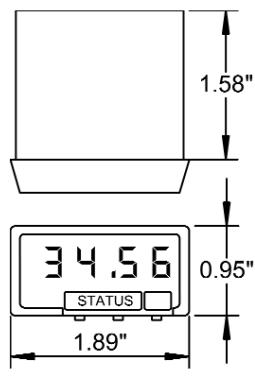
| | |
|-------------------------|--|
| Display | 4 Red Digit LED |
| Range | -1999 to 9999 Decimal Point Selectable in any position. |
| Resolution | 16 bits |
| Conversion Rate | 62 / second |
| Reading Rate | 2 / second |
| Ambient | 14 to 140°F |
| Ambient Storage | -13 to 185°F |
| Ambient Humidity | < 95% RH at 105°F |
| Input | 4 to 20 mA Input |
| Resolution | 0.01 mA |
| Input Impedance | 10 Ω |
| Accuracy | ± 0.1% of rdg +3 digits |
| Temperature Coefficient | 60 ppm / °F |
| Warm Up | 5 minutes |
| Power | Loop Powered |
| Loop Drop | <5.0 VDC @ 20 mA |
| Approvals | EMC 89/336/CEE |

MECHANICAL

| | |
|----------------------|------------------------------|
| Connections | Screw Terminals |
| Maximum Wire Size | 16 AWG Maximum |
| Environmental Rating | NEMA 4 Front Panel |
| Dimensions | 1.89" w X 0.945" h X 1.57" d |
| Panel Cutout | 1.77" w X 0.876" h |
| Weight | 0.11 pounds |
| Maximum Altitude | 6,500 feet |
| Case Material | Polycarbonate s /UL 94 V-0 |

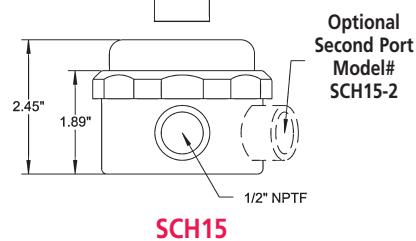
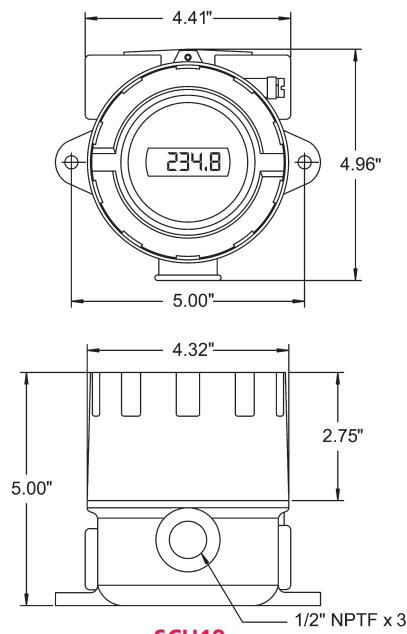


DM700 I



DM720

METAL HOUSINGS FOR DM700 I LOOP POWERED LED INDICATOR



SCH15

STAINLESS STEEL HOUSING

ALUMINUM EXPLOSION PROOF HOUSING

ORDER CODES:

DM700 I FIELD MOUNTED LOOP POWERED LED INDICATOR

DM700 [] / I / Housing

Blank – General Purpose
X – Intrinsically Safe
(ATEX Approved)

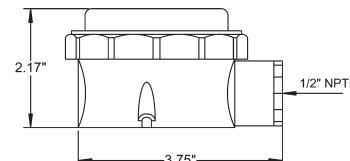
SCH4/A-D – NEMA 4X, IP67
SCH15 – Stainless Steel, NEMA 4X, IP67
SCH18 – Aluminum EX FM(3615)

ORDER CODES:

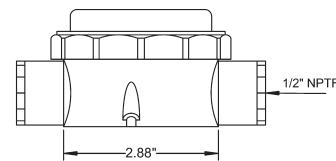
DM720 PANEL MOUNTED LOOP POWERED LED INDICATOR

HOUSING for DM700 I LOOP POWERED LED INDICATOR

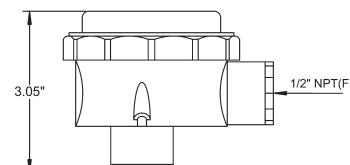
ABS NEMA 4X HOUSINGS



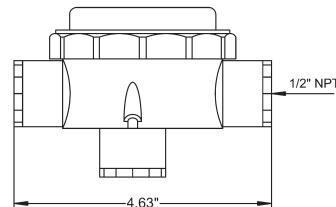
SCH4/A



SCH4/B



SCH4/C



SCH4/D

Local Representation

 **STATUS**
INSTRUMENTS

PO Box 548, 456 Park Ave., Scotch Plains, NJ 07076
Phone: (800) 700-3272 Fax: (800) 700-5468 (US & CA only)
Email: sales@statinst.com Web: www.statinst.com