



MODEL A-701 DIGITAL READOUT

INSTALLATION AND OPERATING INSTRUCTIONS

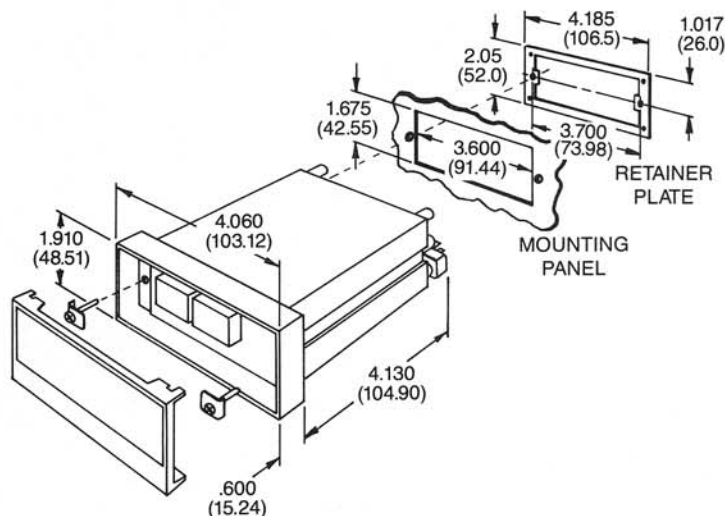


FIGURE A

SPECIFICATIONS

Case:	Standard 1/8 DIN
Accuracy:	$\pm 0.05\%$ of reading
Conversion Rate:	3 readings/sec.
Characters:	0.6" LED, 3-1/2 digit
Input Impedance:	1000 Meg OHM
Power Required:	120 VAC
Power Consumption:	6 watts
Integral Power Supply:	24 VDC, 50mA
Weight:	12 oz.

INSTALLATION

- 1) Case is standard 1/8 DIN size. To panel mount, cut a 3.6" x 1.675" (92mm x 43mm) opening. See figure A.
- 2) Remove front panel filter. Insert screwdriver blade in slot at bottom to release catch and gently pry outward.
- 3) Insert A-701 Digital Readout in panel opening and install retainer plate from rear.
- 4) Slide mounting screws through reinforcing clips and then through holes in readout case. Thread into tapped holes in retainer plate and tighten until unit is secure.

CALIBRATION PROCEDURE

Standard units are factory calibrated to read 00.0 with 4mA DC input and 100.0 with 20mA DC input, thus indicating percentage of full range pressure or temperature being sensed by the companion transmitter. To adjust for other full range values from 500 to 1999 use the following procedure.

- 1) Connect the readout in a current loop with an accurate milliammeter and a current source.
- 2) With front panel filter removed, apply 4mA DC loop current and adjust zero control for "00.0" reading.
- 3) Apply 20mA DC loop current and adjust span control for full span reading. If unable to reach required reading it may be necessary to adjust coarse span control located internally behind the span and zero controls. Disconnect electrical connector and slide internal assembly out to gain access to this setting.

DECIMAL LOCATION

To change the location of the decimal point, install a jumper from decimal common point to appropriate terminal directly below the new position selected. See figure B.

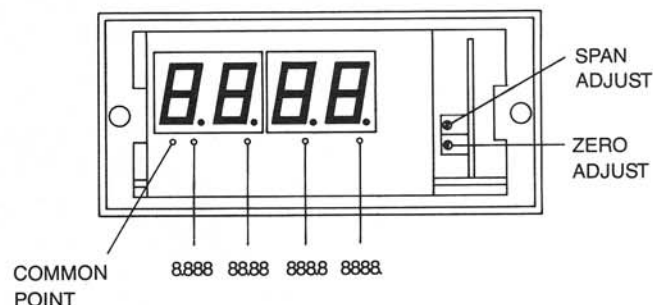


FIGURE B

MODEL A-701 DIGITAL READOUT

WIRING CONNECTIONS

Refer to accompanying circuit schematics for typical wiring arrangements. Note that the A-701 Digital Readout contains a 24V DC @ 50mA DC internal power supply capable of operating most Dwyer transmitters. See figure C. With external power supplies or as part of an EMS (energy management system), wire according to drawings D and E. All three circuits require 120V AC line current to terminals 13 and 15. Solder all wires to edge connector and use heat shrink tubing to insulate each terminal. Attach connector to edge of circuit board.

2-WIRE CONNECTION USING A-701 24 VDC @ 50mA. OUTPUT INTERNAL POWER SUPPLY

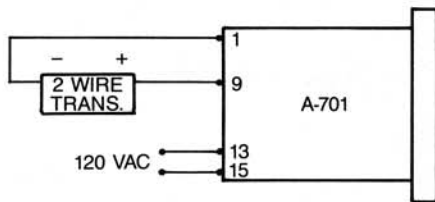


FIGURE C

2-WIRE CONNECTION USING EXTERNAL POWER SUPPLY.

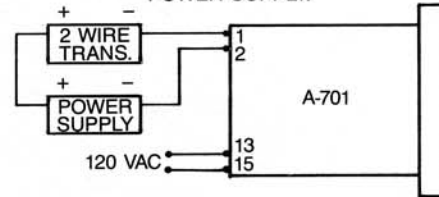


FIGURE D

A-701 INDICATOR IN A SERIES LOOP WITH AN ENERGY MANAGEMENT SYSTEM (EMS).

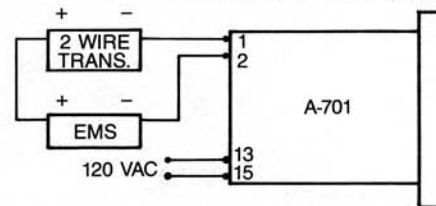


FIGURE E

MAINTENANCE

Following final installation of the A-701 Digital Readout no routine maintenance is required. Periodic checks of calibration are recommended using procedures described above. Units are not field serviceable and should be returned to factory if repair is necessary.

