Description.

The Model 210-R DC Volt Display is to be used to measure

The Model 210-R DC Volt Display is to be used to measure 0-5V outputs from flow measurement devices, or other low voltage measurement applications. Generally the output will be used for measuring 0 to 5 V, with various display Indications — such as 0-100, 0-200 & 0-500 with the 0-5VDC input signal. Dip Swich to set choice of indication- see DIP SWITCH SETTINGS Power to the Display is from a separate external source (or battery) and can be from 5VDC up to 24 VDC @ approximately 2.5 mA. The Display can be mounted in a panel in any relatively dry (non-condensing), clean environment. Two simple 2 wire connections are all that is required to use the Display. Use PN 110-01-13 cable for power connection (RED to V+, BLK to -) & PN 110-01-16 cable for signal input. (ORG for + , YEL for -)

SPECIFICATIONS.

(Both short cables are Included with 210-R Kit)

DISPLAY TYPE: 3.5 Digits LCD, 0.4" Digit height, Auto-zero Display region dimensions: 0.53" x 1.33"

Panel mounted for most applications Panel Opening size 1.67" x 0.92" typical Attach to panel with 2 small drops of RTV

POWER INPUT:

Power Requirements: 6 to 15 VDC @ 2.5 mA-typical

Can use most any DC power from 6 VDC to 24 VDC (best to be transformer isolated if possible)

If battery power is used: Typical life of 9V Alkaline apprx. 200 hrs, or 4 "AA" Alkaline batteries (6V) 1 year

Use a switch to turn power off for longer times.

INPUT (to MEASURE):

Voltage input range: 0 to 5 VDC typical Resistance of the input Approx. 5000 ohms

Dip switch to select reading output options (see chart)

For decimal points use DIP switch and cut tiny board trace per chart Internal trimpor Minor span adjust for exact readings if req'd

Accuracy: +- 0.1% plus 1 digit

Overrange Indication: Displays "1" with blanks after the 1

Reading update: 2.5 readings per second typical

Response time: 1.5 seconds to settle for step input

RETURN INFORMATION.

If it is necessary to return a McMillan Company product for service or repair,

please contact us at: see web site www.mcmflow.com for RMA or
Customer Service Department
7075 RR 2338
P.O. Box 1340

Georgetown, Texas 78628 U.S.A. Phone: (512) 863-0231 Fax: (512) 863-0671



MANUFACTURERS OF AFFORDABLE FLOW SENSORS, METERS & CONTROLLERS

OPERATING MANUAL

Model 210-R Digital Display Meter

for 0-5 Volt Input Measurement

Printed in U.S.A.

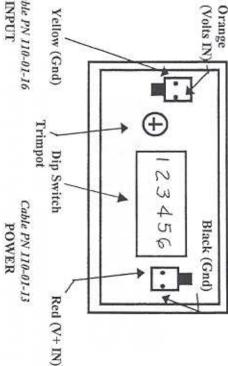
Literature Request No.: Last Revision Date:

MCM-210R Rev. B March 31, 2001

INSTALLATION.....

For panel cutout mounting details - please see SPECIFICATIONS

Rear View of Display 210-R



Cable PN 110-01-16

Attach power and input connections as per above drawing, Caution:

DO NOT REVERSE POWER SOURCE WIRING, and DO NOT APPLY OVER 15VDC source to INPUT or DAMAGE WILL RESULT.

extend them as needed upon installation. Cables noted above are not long lengths - but user can

are considered to be over 4 meters (13 feet). isolated power source - or Battery if desired. Long runs best to power the Display with a floating (transformer-type) runs between the Flow Sensor and the 210-R Display it is have connection to the Power Gnd. For very long cable Please note that internal to DISPLAY the Input Gnd does

Power source can be DC from 6 up to 24 volts.

HANDLING PRECAUTIONS.....

damage. prevent exposure to static discharges - high transient discharges may cause The Model 210-R contains CMOS devices and must be handled in a way to

MAINTENANCE

similar to a laboratory with moderate environmental exposure to dust and moisture (always non-condensing). The Model 210-R requires no maintenance when operated in environment

apparatus. any event be liable for any consequential damages, secondary charges, expenses for or equipment. There are no guarantees or warranty expressed or implied other If at any time within one year after shipment, but not thereafter, it is proved that erection or disconnecting, or losses resulting from any alleged defect in the delivery. Our liability is limited to replacement or repair of such defective parts shipped by McMillan Company, we will repair or replace the same free of charge, any part of the equipment furnished McMillan Company was defective when than those herein specifically mentioned. McMillan Company shall herein not in F.O.B. our plant. Notice of this claim must be made to us within one year after

guarantee. It is understood that corrosion or erosion of materials is not covered by our

DIP SWITCH SETTINGS

#1, 2, 3 for display indication #4, 5, 6 for Decimal point (also cut decimal pt. Trace)

For no Decimal Keep #4,5,6 OFF Decimal xxx.x #6 ON & cut trace Decimal xx.xx #5 ON & cut trace B Decimal x.xxx #4 ON & cut trace C

INDICATION

0 - 2000-1000 #3 ON only - for 0-5V input #2 ON only - for 0-5V input #1 ON only - for 0-5V input



