

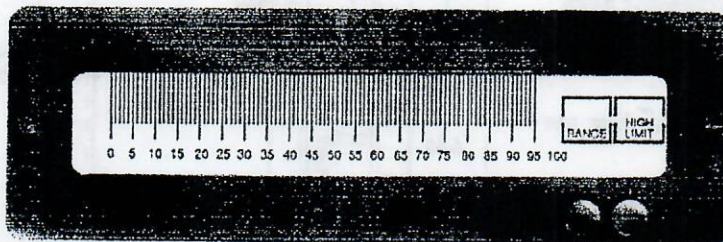
# CURRENT LOOP POWERLESS EDGEWISE BARGRAPH METER

**MODEL**  
**573**

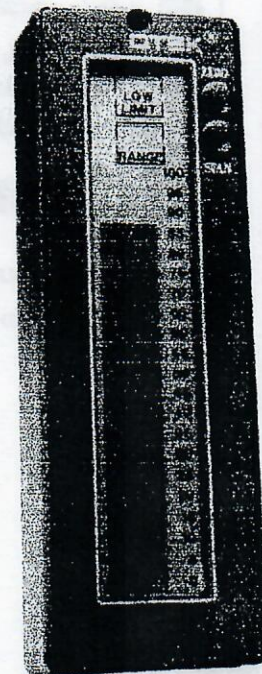
U.S. Patent No.  
4,908,569

### Features

- Loop Powered
- 4-20 & 10-50mA Ranges
- Wide Zero & Span Adjustments
- 101 Segments
- Vertical or Horizontal Mount
- Hi & Low Annunciators
- Over & Under-range Annunciators
- NEMA 3 or NEMA 4 (on request)
- Optional Backlight
- Less than 1" Deep



HORIZONTAL



VERTICAL

**CURRENT LOOP**

**DESCRIPTION:** Model 573 has an internal clamping protection circuit to limit the voltage across (burden on the loop) to 5VDC. The "compliance" power supply does not need to be regulated but must be capable of providing a minimum of 20mADC at the minimum "compliance" voltage, required by the transmitter (12V typically), plus the Powerless DPM® (5V typically), plus the drop in the line (10 milliohms/foot for 22 ga. wire), and plus any other "drop" in the line.

**ANNUNCIATORS:** Hi & lo adjustable included, in addition to over & under-range. The "Hi Limit" annunciator will turn on when its setting is exceeded. The same holds true for "Low Limit" annunciator except that it will illuminate when the signal is less than its setting. The "Out of Range" annunciator will turn on whenever the signal is greater than F.S. (100%) or less than zero (negative).

**CONNECTORS:** A flat ribbon 26-pin connector is standard and it's included with the meter. An optional screw terminal connector is available, (see ordering information).

**BACKLIGHT:** Standard display is reflective black segments over silver background. An optional backlight is available at time of ordering. When ordered, the segments are black over an illuminated background. **Externally powered backlight is optional and requires 5VDC (±20%) at 70mA max. Not available with the 7-32VDC power option. Screw terminal connector must be ordered.**

**LIGHT SOURCE & POWER SUPPLIES FOR BACKLIGHT OPTION:** Otek uses an electroluminescent (E.L.) light source requiring 120VAC @ 400Hz to operate. The E.L. has a uniform light output, and its life expectancy is in excess of 15,000 continuous hours. Power

supplies are externally mounted. Two types are available, the "Open Frame" style accepts 120/240VAC and delivers 5VDC at up to 400mADC (P/N 81-3110). The "Power Pack" is a wall plug in module available only for 120VAC input and delivers 5VDC at up to 100mADC (P/N 75-3110).

**SCALES:** Standard marking is 0-100%. A custom overlay can be made to your specifications for the bargraph. Contact Otek.

### SPECIFICATIONS AT 25°C

Accuracy and Linearity .....	±0.1%
Resolution .....	1% of F.S.
Minimum Input Signal .....	4V/3mA
Maximum Input Voltage .....	30VDC (clamped to 4.3VDC)
Maximum Input Current .....	50 mADC
Polarity .....	unipolar
Span Adjustment Range .....	±50% of specified range
Zero Adjustment Range .....	±30% of "zero"
Backlight Operating Range (for DC-AC) .....	4-6VDC @ 70mA
Temperature Coefficient .....	100PPM/°c
Operating/Storage Temperature .....	-10° to +60°C/-20 to +70°C
MTBF .....	80,000 Hours
Display .....	101 Segment Reflective LCD

**NOTE:** Standard calibration is 4-20mA = 0-100% and 10-50mA = 0-100% of full scale unless otherwise specified at time of ordering.

### CASE MATERIAL

U.L. approved ABS Polycarbonate 94VO rated. Black matte with acrylic anti-glare treated window.

**Environmental:** NEMA 3 standard. NEMA 4 on request; gasket included and adjustment plugs sealed (not field scaleable).

### ORDERING INFORMATION (11/1/00)

MODEL **5** **7** **3** - - - -

#### INPUT RANGE (1)

- 00 ..... 4-20mADC
- 01 ..... 10-50mADC

#### CONNECTOR

- 0 ..... Flat Ribbon
- 1 ..... Screw Terminal

#### BACKLIGHT(2), CASE MTG.

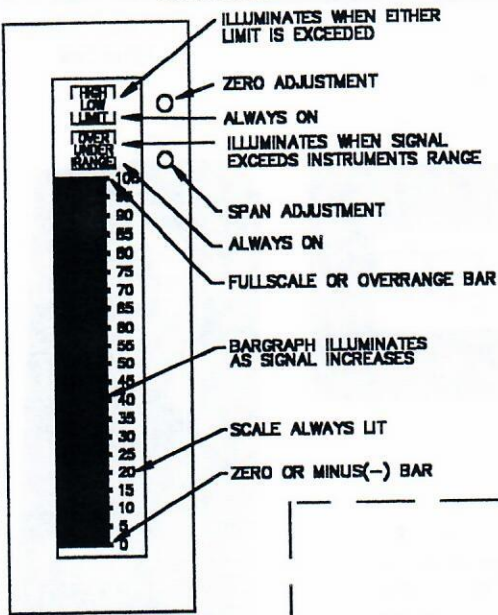
- 0 ..... No Bklt, Vertical
- 1 ..... Backlight, Vertical
- 4 ..... No Bklt, Horizontal
- 5 ..... Backlight, Horizontal

**NEMA 4 HOUSING ON REQUEST.**  
Contact Otek

(1) Standard scaling is 0-100%  
(2) Must order screw terminal connector and must be externally powered.  
See Light Source section above for additional information.

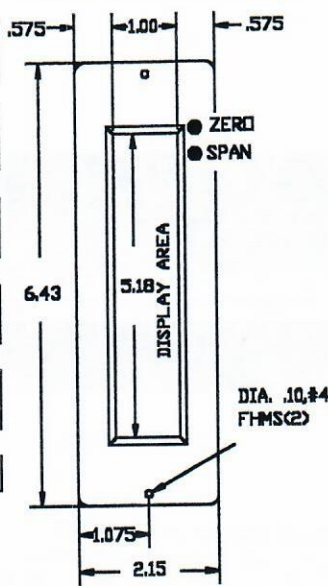
# 573 MECHANICALS & TYPICAL CONNECTIONS

## DESCRIPTION VERTICAL

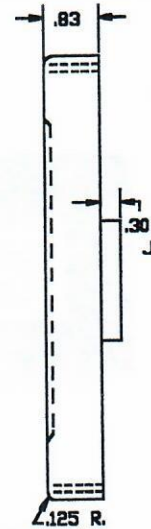


## MECHANICALS

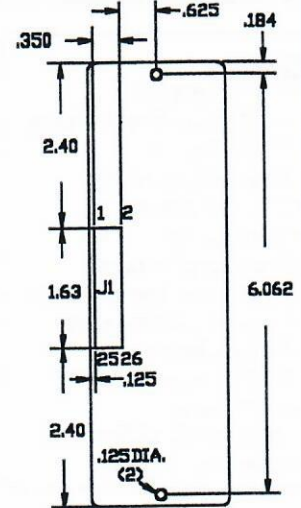
### FRONT VIEW



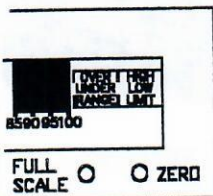
### SIDE VIEW



### REAR VIEW



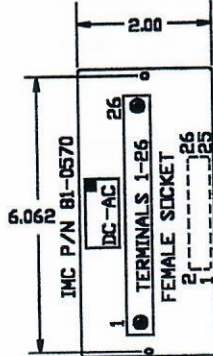
## HORIZONTAL



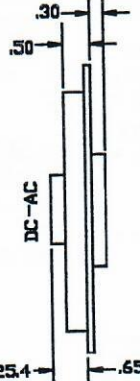
NOTE: HORIZONTAL 570 HAS THE SAME MECH. DIM. AS VERTICAL, EXCEPT THEY ARE ROTATED 90 DEGREES CLOCKWISE.

## OPTIONAL SCREW TERMINAL CONNECTOR

### FRONT VIEW

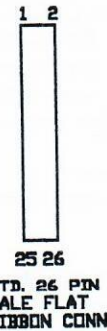


### SIDE VIEW

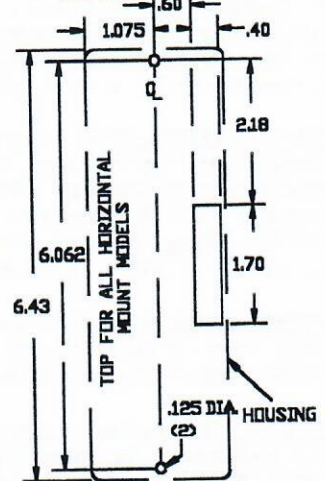


NOTE: P/N = INCH X 25.4

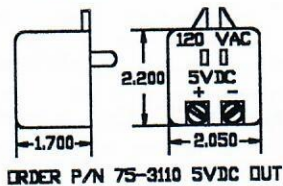
## CONNECTOR REAR VIEW



## PANEL CUT-OUT FRONT VIEW

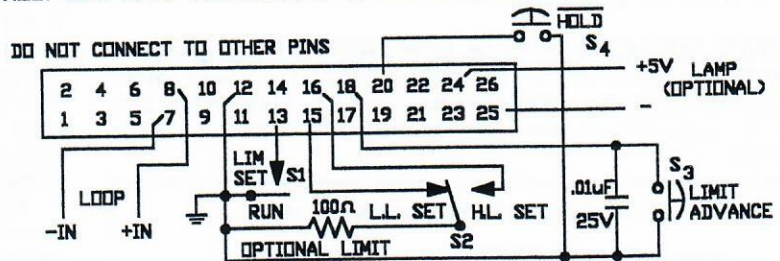


## POWER SUPPLY POWER PACK STYLE



F#87MC573.DWG

## MOD. 573 LOOP POWERLESS TYPICAL CONNECTIONS



NOTES: (1) DO NOT CONNECT PINS NOT SHOWN CONNECTED. (2) S1 & S2 CAN BE COMBINED INTO ONE SWITCH HAVING CENTER OFF DPDT (ON-NONE-ON).

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