

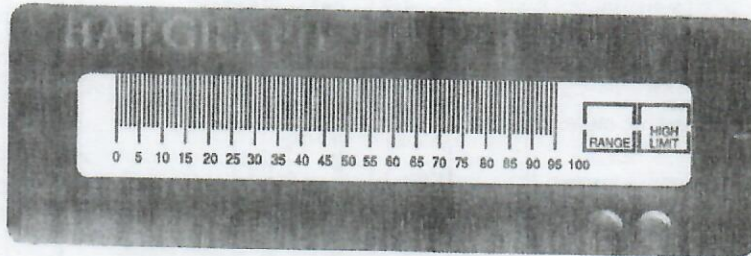
A.C. VOLTS POWERLESS EDGEWISE BARGRAPH METER

MODEL
579

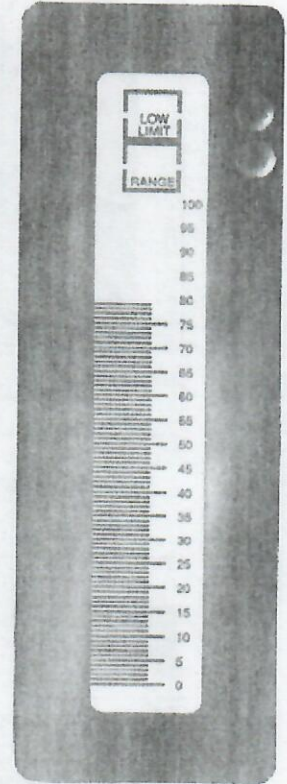
U.S. Patent No.
4,908,569

Features

- 12-500VAC Input Ranges
- Low Cost
- 101 Segments
- Vertical or Horizontal Mount
- Hi & Lo Annunciators
- Over & Under-range Annunciators
- NEMA 3 Standard NEMA 4 (on request)
- Optional Backlight
- Less than 1" Deep



HORIZONTAL



VERTICAL

TRUE RMS AC

DESCRIPTION: Model 579 is designed primarily for A.C. Power line monitoring and controlling where "loading" is of not much concern, (typically less than 1/2 watt). When used for other purposes the "loading" must be taken into consideration (see specifications). The A.C. signal is rectified, filtered and R.M.S. calibrated, before it is displayed.

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 the time of ordering. When ordered, the segments are black over an illuminated background. **Screw Terminal Connector must be ordered with backlight.** The intensity is not adjustable and it's powered by the signal (line), (see Typical Connections).

SCALES: Customer to specify voltage for 100% of full scale. Standard marking is 0-100%. A custom overlay can be made to your specifications for the bargraph, (contact Otek).

LIGHT SOURCE: Electroluminescent and it is powered by the signal requiring only 2mA at 120-500VAC. The E.L. has uniform light output and its life expectancy is in excess of 15,000 hours.

SPECIFICATIONS AT 25°C

Accuracy and Linearity	±1% of full scale
Maximum Input Signal (Volts).....	High range
Maximum Power Consumption	1 watt
Nominal Power Consumption	0.2 watts
Measuring Method	A.C. average RMS calibrated
Span Adjustment Range	±30% of full scale
Zero	Automatic
Backlight Operating Range	60-200V and 200-500V; 50-400Hz
Operating Frequency Range	50-60Hz (others on request)
Temperature Coefficient	100PPM/°C
Operating/Storage Temperature	-10° to +60°C/-20° to +70°C
MTBF	80,000 Hours
Display	101 Segment Reflective LCD

CASE MATERIAL: U.L. approved ABS Polycarbonate 94VO rated. Black matte with acrylic antiglare treated window.

ENVIRONMENTAL: NEMA 3 standard. NEMA 4 on request; Gasket included and adjustment plugs sealed (not field scaleable).

ORDERING INFORMATION (1/1/97)

MODEL **5** **7** **9**

OPERATING-VOLTAGE RANGE
00 12-60VAC
01 60-200VAC
02 200-500VAC

(1) Uses the A.C. line to power the backlight and screw terminal connector must be ordered.

CONNECTOR

0 Flat Ribbon
1 Screw Terminal

BACKLIGHT(1), CASE MTG.

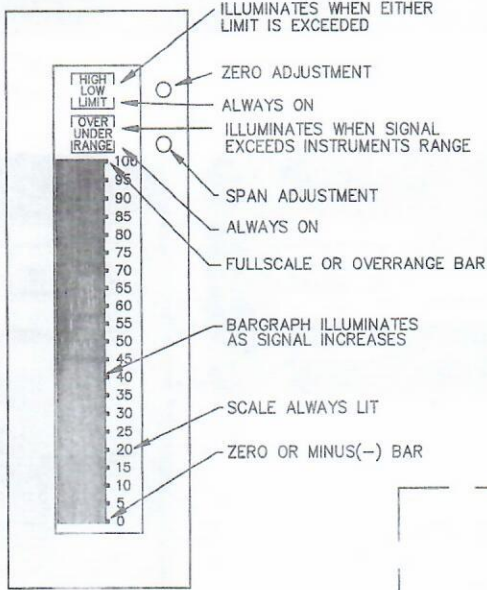
0 No Bklt, Vertical
1 Backlight, Vertical
4 No Bklt, Horizontal
5 Backlight, Horizontal

NEMA 4 HOUSING ON REQUEST
Contact Otek

579 MECHANICALS & TYPICAL CONNECTIONS

DESCRIPTION

VERTICAL



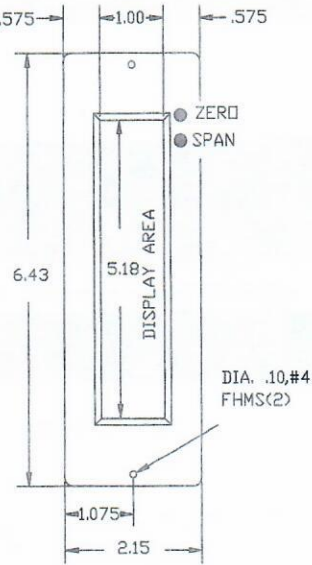
HORIZONTAL



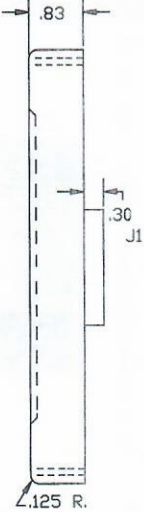
NOTE: HORIZONTAL 570 HAS THE SAME MECH. DIM. AS VERTICAL, EXCEPT THEY ARE ROTATED 90 DEGREES CLOCKWISE.

MECHANICALS

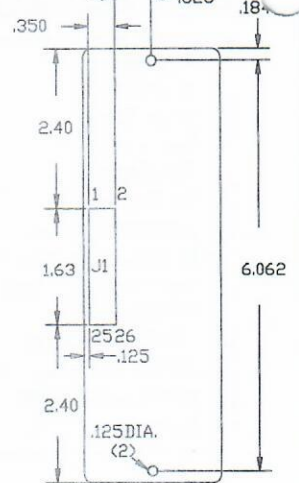
FRONT VIEW



SIDE VIEW



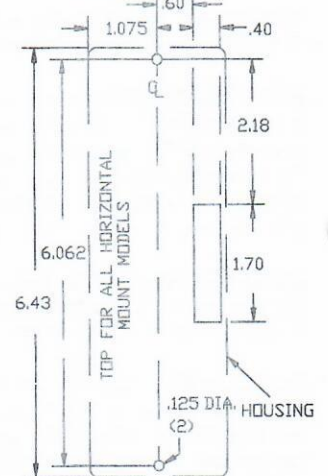
REAR VIEW



CONNECTOR REAR VIEW

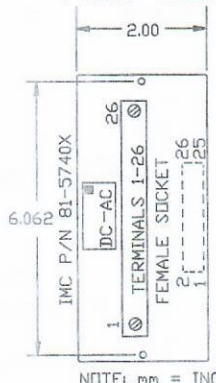


PANEL CUT-OUT FRONT VIEW

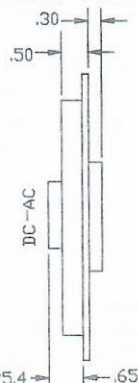


OPTIONAL SCREW TERMINAL CONNECTOR

FRONT VIEW



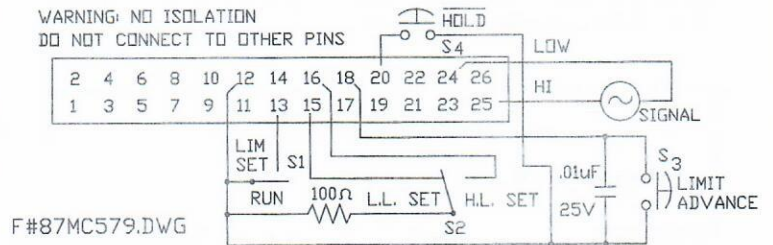
SIDE VIEW



NOTE: mm = INCH X 25.4

MOD. 579 AC VOLTS POWERLESS TYPICAL CONNECTIONS

WARNING: NO ISOLATION
DO NOT CONNECT TO OTHER PINS



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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