

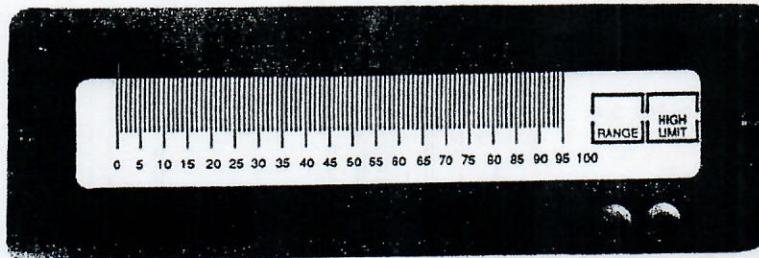
VDC/mADC EDGEWISE BARGRAPH METER

MODEL
570

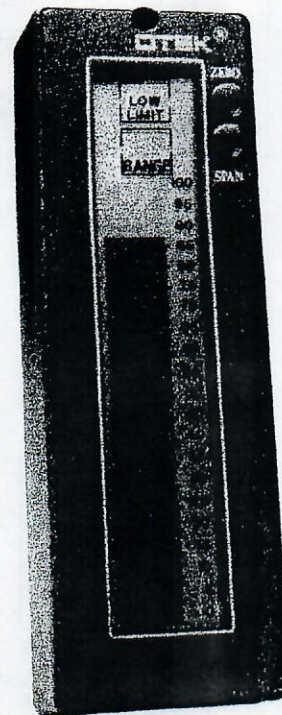
U.S. Patent No.
4,908,569

Features

- 100mV-500V & 100µA-1Amp Ranges
- Only 3mA @ 5VDC Power
- 101 Segments
- Vertical or Horizontal Mount
- Hi & Low Annunciators
- Over & Under-range Annunciators
- NEMA 3 Standard
- NEMA 4X (on request)
- Optional Backlight
- Less Than 1" Deep



HORIZONTAL



VERTICAL

D.C. VOLTS/AMPS

DESCRIPTION: Model 570 requires 5VDC typically to operate at a very low current and can be connected differentially (power common & signal common not connected to each other) or single ended (power common and signal common connected to each other). Optional 7-32VDC operation is internal to the unit.

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. **Screw terminal connector must be ordered.** The intensity is not adjustable (see Typical Connections). **Not available with 7-32VDC power input option.**

LIGHT SOURCE: Electroluminescent (E.L.) requiring 5VDC @ 100mA. The E.L. has a uniform light output, and its life expectancy is in excess of 15,000 continuous hours.

COMMON MODE VOLTAGE:

The unit can be connected in differential mode with up to 2VDC/AC between digital ground (pin 12) and - signal (pin 4). For better results and noise rejection connect the unit in single ended mode (digital ground to - signal). See Typical Connections.

POWER SUPPLIES: When required and ordered will be externally mounted. Two types are available, the "Open Frame" style accepts 120/240VAC and delivers 5VDC at up to 400mADC. The "Power Pack" is a wall plug in module available only for 120VAC input and delivers 5VDC at up to 100mADC.

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% of full scale
Resolution 1% of F.S.
Power Operating Range 5VDC ±10% (see power input option)
Current Requirements 3mA
Input Signal Protection 300% of specified range
Polarity unipolar
Measuring Method Dual slope integration
Input Type Single ended or differential
Span Adjustment Range ±40% of full scale
Backlight Operating Range 4-6VDC, 70mA
Temperature Coefficient 100PPM/°C
Operating/Storage Temperature -10° to +60°C/-20° to +70°C
Backlight Operating Range (for DC-AC) 4-6VDC @ 70mA
MTBF 80,000 Hours
Display 101 Segment Reflective LCD

CASE MATERIAL

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

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

ORDERING INFORMATION (11/1/00)

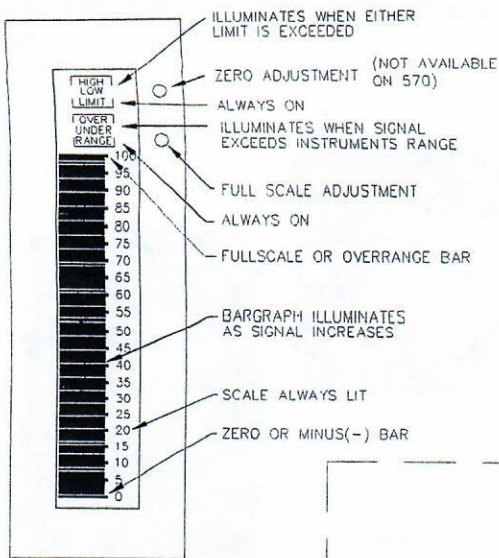
MODEL	5	7	0	□	□	□	□	CONNECTOR
INPUT RANGE (1)								0 Flat Ribbon
0	100mVDC/1KΩ						1 Screw Terminal
1	1VDC/10MΩ						
2	10VDC/10MΩ						BACKLIGHT(2), CASE
3	100VDC/10MΩ						MTG.
4	500VDC/10MΩ						0 No Bklt, Vertical
5	100µADC/1KΩ						1 Backlight, Vertical
6	1mADC/100Ω						4 NoBklt, Horizontal
7	10mADC/10Ω						5 Backlight, Horizontal
8	100mADC/1Ω						POWER INPUT (3)
9	1ADC/0.1Ω						0 5VDC
\$	50mVDC/10MΩ						1 120/240VAC
								2 120VAC
								3 7-32VDC

NEMA 4X HOUSING ON REQUEST.
Contact Otek

- 50mVDC & 500VDC=100% of scale
- Must order screw terminal connector.
- 120/240 VAC is open frame P.S. Style; 120VAC is power pack wall plug-in.

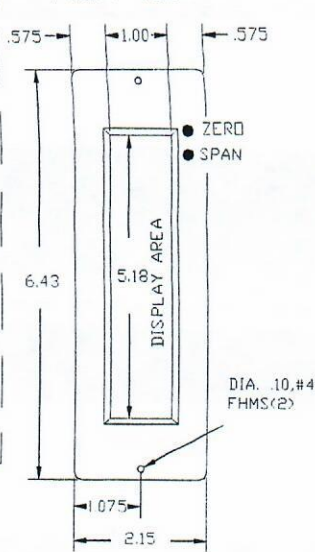
570 MECHANICALS & TYPICAL CONNECTIONS

DESCRIPTION VERTICAL

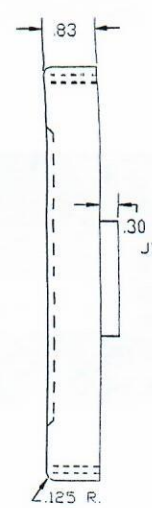


MECHANICALS

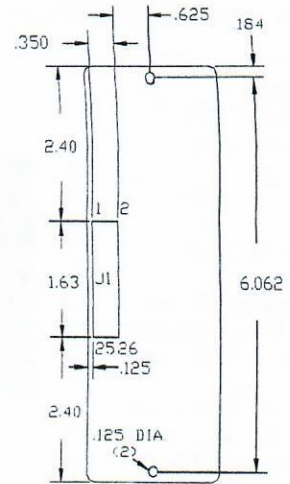
FRONT VIEW



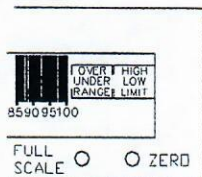
SIDE VIEW



REAR VIEW



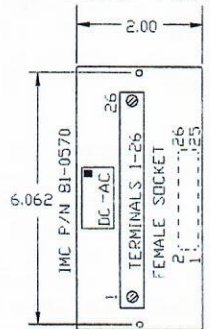
HORIZONTAL



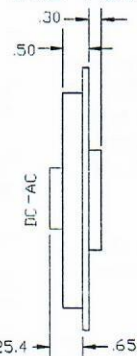
NOTE: HORIZONTAL 570 HAS THE SAME MECH. DIM. AS VERTICAL, EXCEPT THEY ARE ROTATED 90 DEGREES CLOCKWISE.

OPTIONAL SCREW TERMINAL CONNECTOR

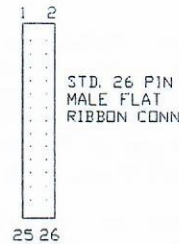
FRONT VIEW



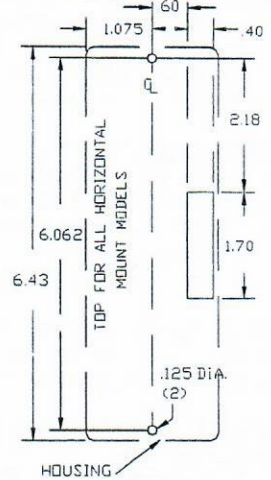
SIDE VIEW



CONNECTOR REAR VIEW

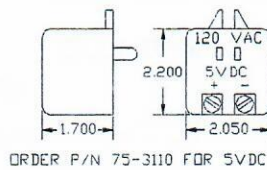


PANEL CUT-OUT FRONT VIEW

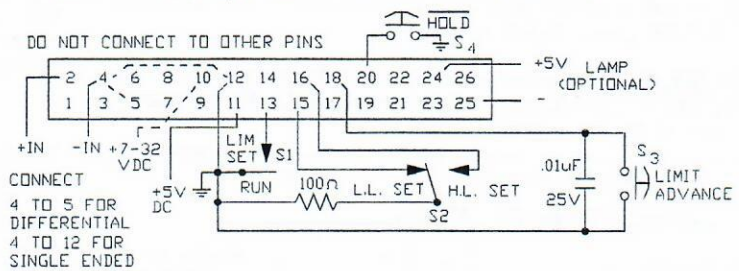


POWER SUPPLY

POWER PACK STYLE



MOD. 570 VDC/mADC 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).

F#87MC570.DWG

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