

VDC/mADC POWERLESS EDGEWISE BARGRAPH METER

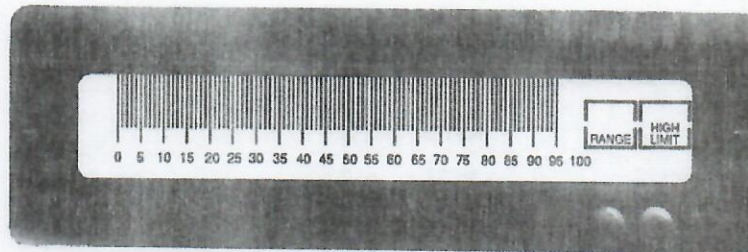
MODEL
571

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

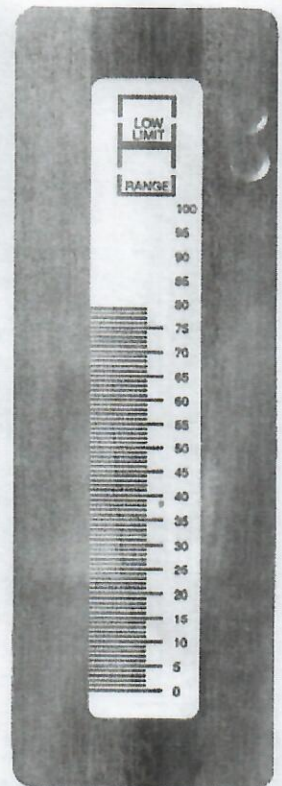
D.C. VOLTS/AMPS

Features

- Signal Powered
- 2mA-100mADC & 4-140VDC Ranges
- 101 Segments
- Vertical or Horizontal Mount
- Hi & Low Annunciators
- Over & Under-range Annunciators
- NEMA 3 Standard
- NEMA 4 (on request)
- Optional Backlight
- Less than 1" Deep



HORIZONTAL



VERTICAL

DESCRIPTION: Model 571 requires no external power source since it draws its energy from the source it measures. It requires, however, a minimum voltage and current to operate which varies with the model number, (see specifications). Care must be taken not to overload the signal source in order to have a reliable and accurate operation. **When a backlight is ordered with this model it must always be externally powered (5VDC ±20%).**

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).

LIGHT SOURCE & POWER SUPPLIES FOR BACKLIGHT

OPTION: Otek uses an electroluminescent (E.L.) light source requiring 5VDC @ 100mA 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).

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

SPECIFICATIONS AT 25°C

Accuracy & Linearity	±0.1% of full scale
Resolution	1% of F.S.
Minimum Input Signal	4VDC/2mA
Maximum Input Signal	150% of specified range
Polarity	Unipolar
Temperature Coefficient	100PPM/°C
Measuring Method	Dual slope integration
Span Adjustment	±40% of full scale
Zero	Automatic
Backlight Operating Range (for DC-AC)	4-6VDC, 70mA
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 anti-glare 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** **1** **□** **□** **□** **□**

INPUT RANGE (1)

- 00 2-10mADC
- 01 2-100mADC
- 03 4-7VDC/2mADC
- 04 7-30VDC/4mADC
- 05 25-50VDC/6mADC
- 06 50-100VDC/6mADC
- 07 90-140VDC/6mADC

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

(1) All ranges 0-100% unless otherwise specified.

(2) Must order screw terminal connector and must be externally powered.

See Light Source section above for additional information.

NEMA 4 HOUSING ON REQUEST. Contact Otek