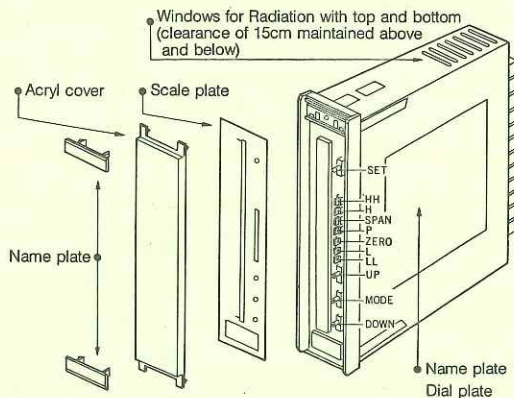


# INSTRUCTION BARGRAPHMETER (WITH DIGITAL INDICATOR)

## Name of Each Part

Note : Indicator only model does not have the setting lamps for HH, LL, H and L

Note : 2 set points model does not have the setting lamps for HH and LL



## FUNCTIONS

### 1. SCALING

Both Span and Zero on the digital display can be changed and set up. Also scalings for both Span and Zero according to an input sensitivity can be adjusted if needed.

Both Span and Zero on the bargraph display can not be changed.

### 2. OVER SCALE DISPLAY

The over-range annunciator "Hi" will display and blink on the digital display when the input signal exceeds the span value.

The over-range annunciator "Lo" will display and blink on the digital display when the input signal exceeds the zero value.

### 3. SETPOINT PROGRAMMING

The setpoints programming can be easily changed to suit the desired positions (Hi/Lo or HiHi/LoLo) between the programmed full and zero scale value. If an invalid value is entered, the processor will select the setpoint position "OFF".

The setpoints must be programmed as  $HiHi \geq Hi$  and  $Hi \geq Lo$  and  $Lo \geq LoLo$ .

### 4. THE NUMBERS OF MOVE AVERAGED SAMPLING DATA PROGRAMMING

The numbers of move averaged sampling data can be selected in the range of 1, 2, 4, 8 and 16 times step.

### 5. ALARM OUTPUT DELAY PROGRAMMING FOR EACH SETPOINT

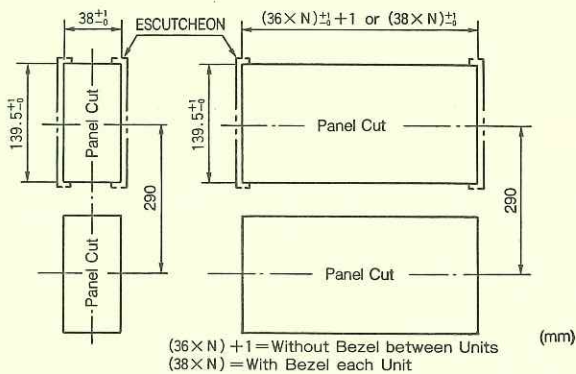
The alarm output delay time can be programmed with one second interval step in the range of 1~15 seconds.

### 6. Hi-Lo HYSTERESIS

The Hysteresis will default to 1% of total scale.

## PANEL CUTOUT DIMENSIONS

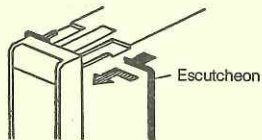
For single Mounting For stacked Mounting in Horizontal



Bezel (Escutcheon) may be used for both sides only without regard to the number of stacked mounting

## Note

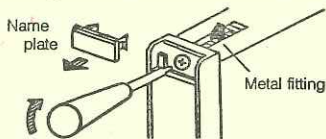
● 2 bezel (escutcheon) mounting plates are put in the pocket. Install the bezel mounting plates as shown.



● Remove top and bottom name plates by gently pulling forward.

Turning the top and bottom mounting screws clockwise will lock the metal fitting against the back of the panel.

Turning the mounting screws counterclockwise will release the meter.



● Clearance of 15cm must be maintained above and below any meter.

Failure to ensure correct clearance can cause overheating and damage to the meter.

● With top and bottom nameplates removed, the clear cover and scale plate may be removed.

## CONNECTIONS

Remarkable Points on Connection Works

### 1. Usable Electric Wire

- (1) A shielded cable shall be connected for the input.
- (2) Use 600V polyvinyl chloride wire (IV wire) for the aux, power in accordance with JIS C 3307.

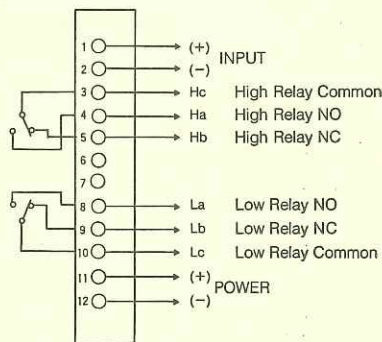
### 2. Input shielded cable and Power cable

- (1) Clearance of 50cm or more must be maintained between input shielded cable and power line.
- (2) Do not bundle up both cables together.
- (3) Prevent to let both cable together in same conduit.
- (4) Keep input shielded cable away from any power source, power utility and feeder lines.
- (5) Abide by above items even if inside of panel positioning.

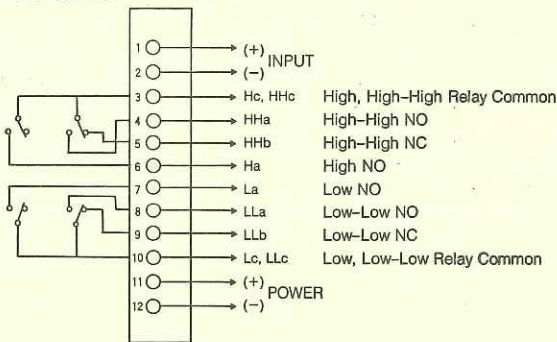
### 3. Connection

- (1) Use pressure connection terminal to meet M3 screw.

#### 2 set points



#### 4 set points



Note : Indicator type has the input and the aux. power terminals only.

## SPECIFICATIONS

a) Sampling Speed	80 ms
b) Digital Display Resolution	1 / 2000
c) Display Response	80 ms
d) Display Range	-1999 ~ 9999
e) Range of Move Averaged Sampling	1, 2, 4, 8, 16 times step
f) Range of Delay Programming	0 ~ 15 sec.

## PROGRAMMING INSTRUCTION

a) ZERO, SPAN, LL, L, H, HH programming  
MODE "M" button advances program ZERO(Z), SPAN(S), LowLow(LL), Low(L), High(H), HighHigh (HH) with LED blinking.

Using the Up▲ and Down▼ keys, set Bar Position to the desired value.

And press "SET" key to program, then LED will light off.

Make sure that programming will have been completed after pressing "SET" key.

In case of ZERO and SPAN programming, all programmed data on LL, L, H, HH is cancelled so that set ZERO and SPAN before LL, L, H, HH programming.

b) Select "P" mode by pressing "M" key, then press the Up▲ and Down▼ keys at the same time.

"P" LED will blink, then the decimal memory mode will be automatically set up and the current programmed value and A will be indicated on the display.

Select the desired sampling number by pressing ▲ or ▼ key. Press "SET" key.

c) High or Low Alarm Output ON delay programming

Select "H" or "L" mode by pressing "M" key, then press the Up▲ and Down▼ Keys at the same time.

The delay ON mode will be automatically set up and the current programmed value with second unit and "d" will be indicated on the display.

Enter the desired value by pressing ▲ or ▼ key.

Press "SET" key.