

HD DIGITAL METER SERIES

PROGRAMMABLE MOSAIC INDICATOR

MODEL
HD - GPMA

MODEL & SUFFIX CODE

MODEL HD-GPMA

INPUT

A	4 ~ 20mA DC
B	1 ~ 5V DC
C	RTD INPUT
D	PF DISPLAY (-0.5 ~ 1 ~ 0.5)
O	Spec Order

ORDERING INFORMATION

Specify code number and variables

* **Code number** : HD-GPMA-INPUT
ex) HD-GMPA-A

* **Special input range** (code O)

GENERAL SPECIFICATIONS

Construction : Mosaic graphic panel flush mounting

Connection : PIN connector

Housing material : black plastic

Input configuration : single-ended

Scaling : microprocessor using
control for key s/w

DISPLAY

LED : 7-segment (0.56 Inch), red and green

Number of display digit : 4digit

Scaling factor for process Meter

Zero : 0 -1999 counts

Span : (Zero point) + 9999 counts.

Decimal point position : at key s/w setting

Read rate : 1.2/sec standard

Over-range indication : display by -F

INPUT

DC INPUT

INPUT	INPUT IMPEDANCE
±1,999V ±19,99V ±199,9V	10MΩ or more
4 ~ 20mA 0 ~ 20mA 0 ~ 1mA	100MΩ 100MΩ 1 KΩ



RTD INPUT

2 or 3 wire RTD'S

input sensing : 2mA DC(pt)

INPUT	USABLE RANGE	
	℃	°F
Jpt 100	-200 TO 500	-328 TO 932
pt 100/JIS	-200 TO 600	-328 TO 1112
pt 100/DIN	-200 TO 600	-328 TO 1112

INSTALLATION

Power supply :

DC : 15~24V±10%

75mA at 24V INPUT

AC : rating (20~30V)

±10% 60/50HZ 20VA

Operating temperature : 0 to 55℃ (33 to 131°F)

Operating humidity : 20~85%RH

(non-condensing)

Storage temperature : -20 to 70℃

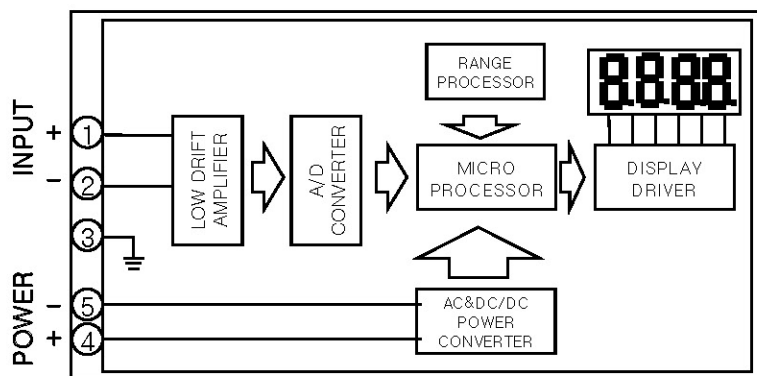
Storage humidity : 20~95%RH

(non-condensing)

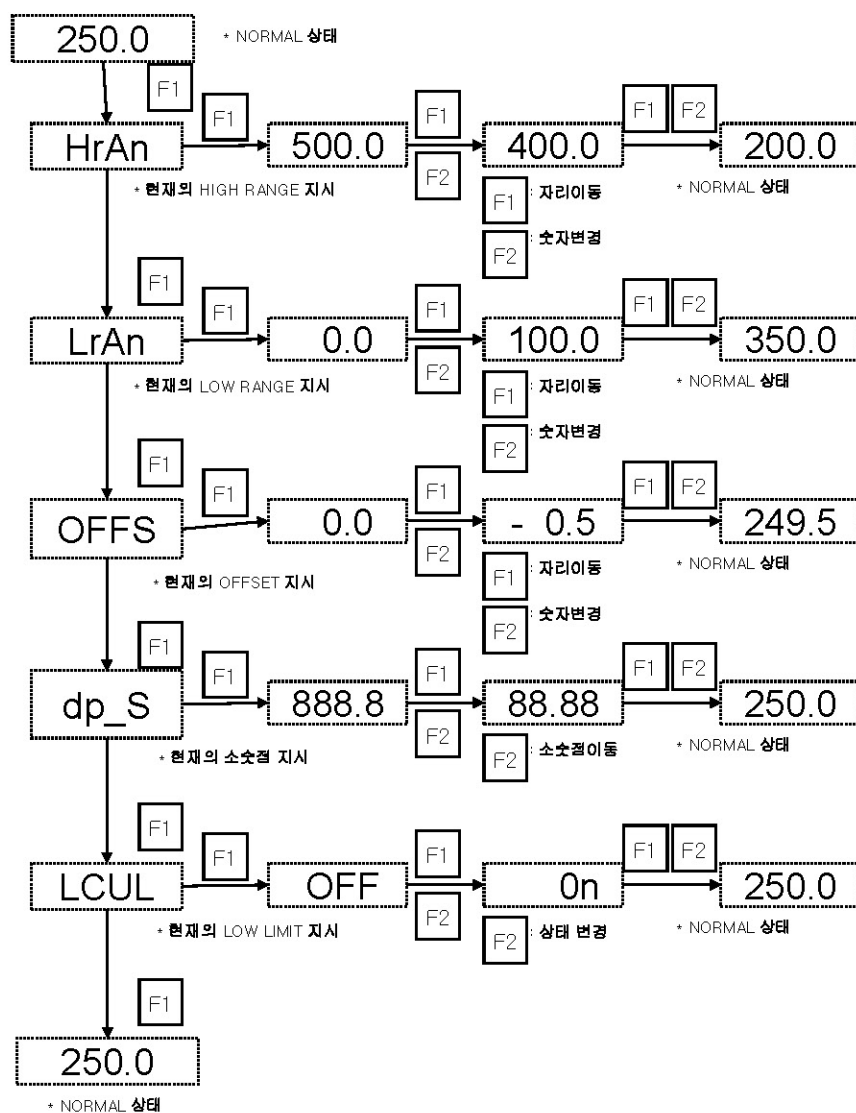
Size : W75xH25 x D105mm

Weight : about 200g

BLOCK DIAGRAM



* OPERATION 1



* OPERATION 2

MODE 설명

1. HIGH RANGE SET MODE **HrAn**

- ① DISPLAY RANGE 의 HIGH값을 설정하는 MODE이다.
- ② SETTING RANGE : 0-9999
- ③ DEFAULT SET VALUE : 1000

2. LOW RANGE SET MODE **LrAn**

- ① DISPLAY RANGE 의 LOW값을 설정하는 MODE이다.
- ② SETTING RANGE : -1999 - (+)9999
- ③ DEFAULT SET VALUE : 0

3. OFFSET SET MODE **OFFS**

- ① NORMAL MODE에서 실재값과 DISPLAY값이 맞지 않을 때 SETTING하는 값 보정 MODE이다.
- ② 예1> 실재값: 150.0 DISPLAY 값: 150.3
▶ OFFSET SETTING 값 : -0.3
예2> 실재값: 1500 DISPLAY 값: 1495
▶ OFFSET SETTING 값 : -0.5
※ DISPLAY 값 = DISPLAY + OFFSET 값
- ③ DEFAULT SET VALUE : 0

4. 소숫점 변경 MODE **dP_S**

- ① 소숫점을 변경하는 MODE

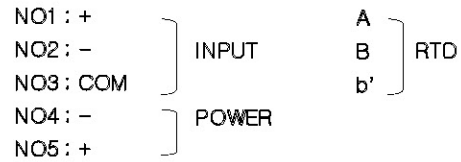
5. LOW LIMIT SET MODE **LCUE**

- ① DISPLAY RANGE 의 LOW값 이하로 값이 내려가지 않게 ZERO LIMIT 기능을 가능 또는 불가능하게 하는 MODE이다.
- ② ON : ZERO LIMIT ENABLE.
OFF : ZERO LIMIT DISABLE.

PERFORMANCE

- Accuracy $\pm 0.2\%$ of rSg ± 1 digit
- Temp coefficient : $\pm 0.005\%$ of rag ± 1 digit/ $^{\circ}\text{C}$
- Line Voltage effect : ± 1 digit of 10% change
- Insulation resistance : 100M Ω or more
with 500V DC
- Dielectric strength : 1200V AC 1minute
(Input to power to gnd)

TERMINAL CONNECTION



DIMENSION

