HD HYUNDAI POWER SYSTEM

HD SIGNAL CONDITIONER SERIES

POTENTIOMETER TRANSMITTER

MODEL HD-PTM

MODEL & SUFFIX CODE SELECTION

MODEL HD-PTM □ □ □ □ □

■ **Input signal**

A:Any value or
100Ω - 10kΩ
O:Others

■ **Output1 signal**

1	0-10mVDC
2	0-100mVDC
3	0-1VDC
4	0-10VDC
5	0-5VDC
6	1-5VDC

A	4-20mADC
B	1-5mADC
C	0-20mADC
D	0-1mADC
O	Spec Order

■ **Output2 signal**

Availability as Output1
N:None

■ **Display**

A:Percent
B:Input signal
C:Output signal
O:Others
N:None

■ **Power**

X:110V AC Y:220V AC
Z:24V DC O:Others

ORDERING INFORMATION

Specify code number and variables.
•**Code number :** ex) HD-PTM-AAANY
•**Special input and output ranges :** code:O
A : -10 ~ 20mA
V : 0 ~ ±15V

GENERAL SPECIFICATIONS

Construction : plug-in
Connection : M3.5 screw terminals
Housing material : flame-resistant resin (black)
Isolation : input to output to power
(non-isolated between I/O for PM)
LCD meter : indicating scaled input; 0.1% increments
Front adjustments : 0 - 50% of total resistance for zero;
50 - 100% for span

INPUT & OUTPUT

■ **INPUT** : potentiometer; 100Ω - 10kΩ
Minimum span : 50% of total resistance
Excitation : 0.5V DC

■ **OUTPUT**
• **DC Current** : 0 - 20mA DC
Minimum span : 1mA
Zero suppression/elevation : max. 1.5 times span
load resistance

Output	Load Resistance
4 - 20mA	: 750 (Ω maximum)
2 - 10mA	: 1500
1 - 5mA	: 3000
0 - 20mA	: 750
0 - 16mA	: 900
0 - 10mA	: 1500
0 - 1mA	: 15k

•**DC Voltage** : -10 - +12V DC
Minimum span : 5mV
Zero suppression/elevation : max. 1.5 times span
Load resistance : output drive 10mA maximum;
5mA for negative voltage output; at ≥0.5V

Output	Load Resistance
0 - 10mV	: 10k (Ω minimum)
0 - 100mV	: 100k
0 - 1V	: 100
0 - 10V	: 1000
0 - 5V	: 500
1 - 5V	: 500
-10 - +10V	: 2000
-5 - +5V	: 1000

INSTALLATION

Power input
- AC : rating ±10%, 50/60 ±2 Hz, approx. 2VA
- DC : rating ±10% , or 85 - 150V for 110V rating (ripple 10% p-p max.) approx. 2W (80mA at 24V)

Operating temperature : -5 to +60℃ (23 to 140°F)
Operating humidity : 30 to 90% RH (non-condensing)
Mounting : surface or DIN rail
Dimensions : W50 x H80 x D123 mm
See General Spec. Sheet Page B-1.
Weight :
Terminal assignment : See General Spec. Sheet Page B-1.

PERFORMANCE in percentage of span

Accuracy : ±0.1%
Temp. coefficient : ±0.015%/℃ (±0.008%/°F)
Ripple : 0.25% p-p max. (100/120Hz)
Response time : ≤0.4(400ms) seconds (0 - 90%)
approx. 25 milliseconds with option
Line voltage effect : ±0.1% over voltage range
Insulation resistance : ≥100MΩ with 500V DC
Dielectric strength : 2000V AC @1 minute
(PM : input or output to power to ground)
(PMS : input to output to power to ground)
Common mode voltage : 30V RMS (CSA)
Surge withstand Voltage : 1.2/50μsec, ±5KV
(INPUT to OUTPUT to GROUND)

SCHEMATIC CIRCUITRY & CONNECTION DIAGRAM