

HUMITRON® HPX2000



Flush-mount Multisensing Transmitter **HPX2000** series

- Multi input function for temperature & humidity sensor with voltage, current and RS485 type
- Application of high resolution graphic LCD, Capacitive touch button
- Displays four measured values
(Diff. pressure, temperature, humidity and dew point temperature) at once
- Display function of trend data graph
- 2 digital alarm outputs
- 3 analog (4~20mA) outputs
- RS485 Modbus RTU communication
- Front cover made of stainless steel





High precision differential pressure, temperature and humidity transmitter with high reliability and stability

■ Technical data

Diff. pressure

Pressure range	±25Pa, ±125Pa, ±500Pa
Accuracy	±3% of reading
Zero span	±0.1Pa(±25Pa, ±125Pa) / ±0.2Pa(±500Pa)
Repeatability	0.5% of reading
Reliability	< 0.1Pa/year
Type of fluid	Air, N ₂ , O ₂
Display unit of pressure	Pa, mmHg, InH ₂ O, mmAq(mmH ₂ O), hPa, kPa, mbar

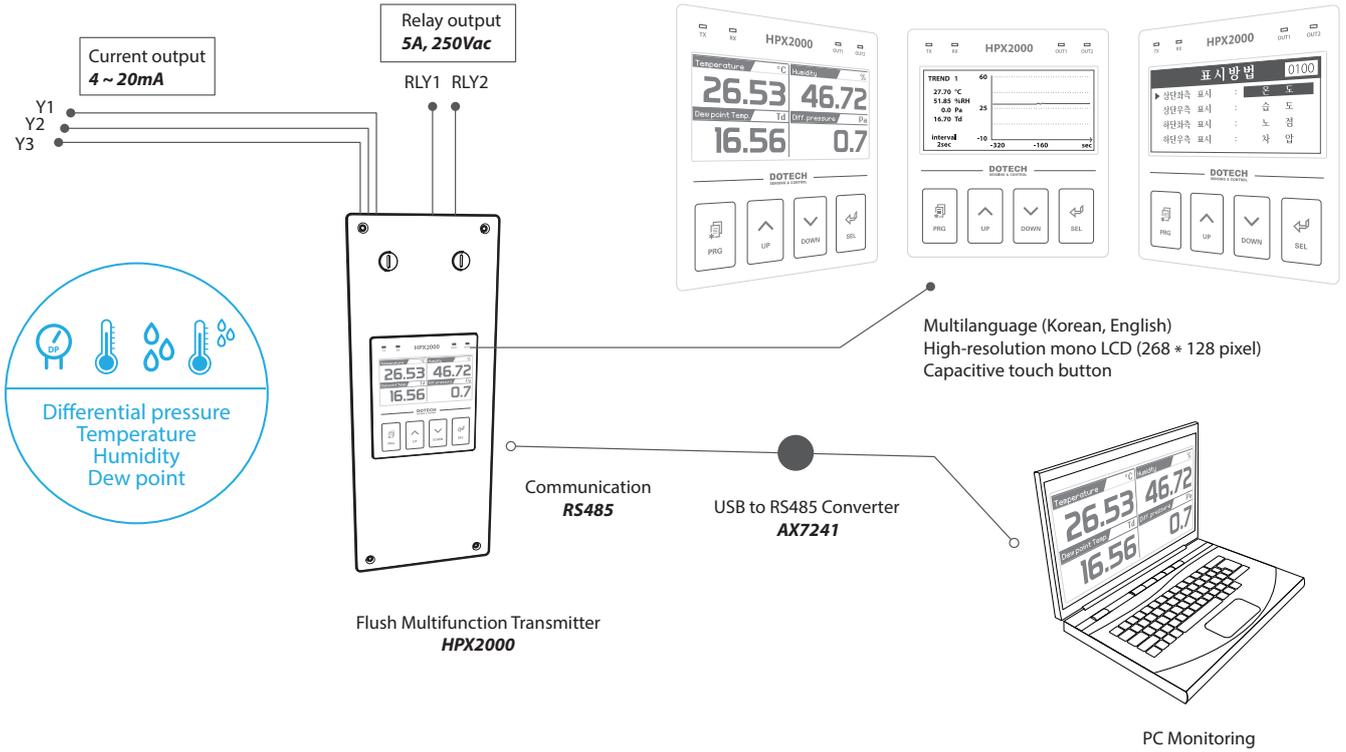
Input

Temperature	Selectable inputs between RS485, 0~5V, 1~5V, 0~1V, and 4~20mA
Humidity	Selectable inputs between RS485, 0~5V, 1~5V, 0~1V, and 4~20mA

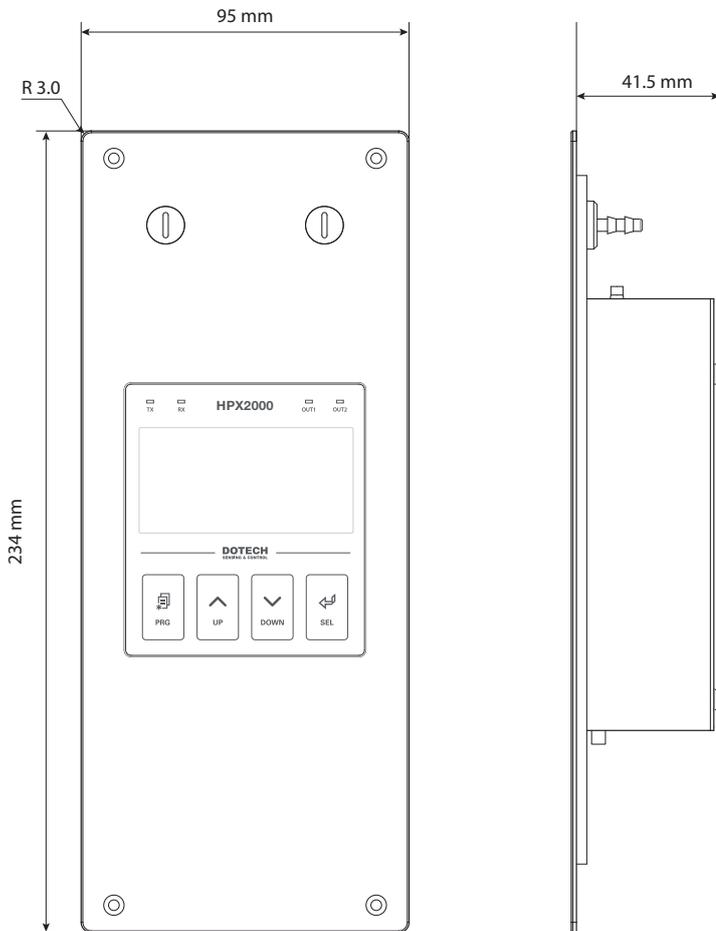
* Dew point temperature is computed at a given (entered) ambient temperature and relative humidity value.

Specifications

Power supply	24Vdc ± 10%, 24Vac ± 10%, 50/60Hz
Current consumption	max. 120mA @24Vdc
Relay output	2-CH, 5A, 250Vac
Current output	3-CH, Opto-isolation
Digital output	RS485, Galvanic-isolation (Modbus RTU protocol)
Material	SUS316 Hairline
Display	High resolution MONO LCD (268 x 128 Pixel) / Capacitive touch button
Operating temperature	Temperature : -10 ~ 60°C, (Non condensation)
Storage temperature	Temperature : -20 ~ 70°C, Humidity : Below 95%RH
Dimensions	95(W)mm X 234(H)mm X 42(D)mm
IP rating	IP65 (Front panel)
Weight	600g

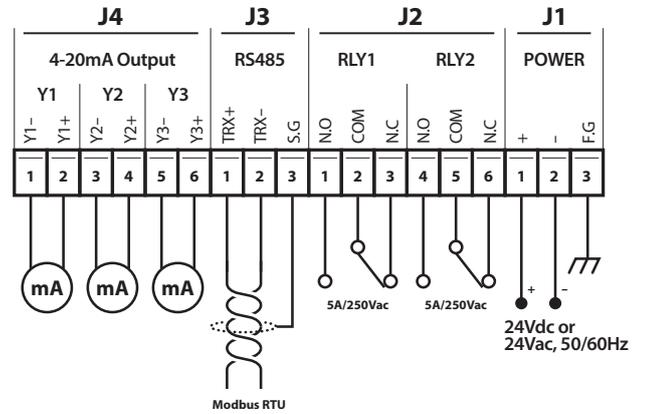


■ Dimensions

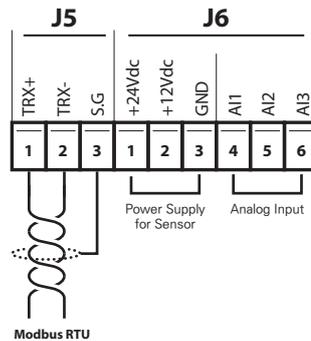


■ Wiring

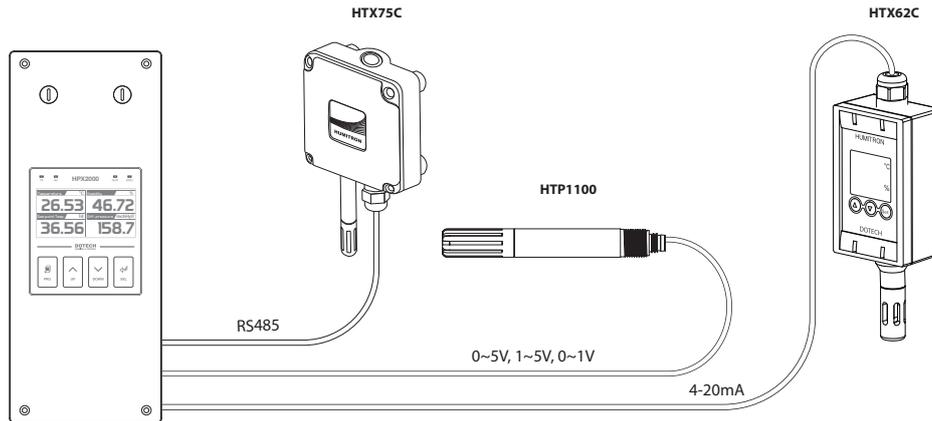
Power supply & Output



Temperature & Humidity Inputs



■ Use example of temp. & humidity sensor



Range by unit of pressure

Unit	Minimum	Maximum
Pa	-500.0	500.0
kPa	-0.50	0.50
hPa	-5.00	5.00
mmAq	-50.98	50.98
mbar	-5.00	5.00
inchH ₂ O	-2.00	2.00
mmHg	-3.75	3.75

Range by unit of temperature

Unit	Minimum	Maximum
°C	-10.00	60.00
°F	14.00	140.0

※ Measurement range of pressure can be varied in accordance with specifications when placing an order.

※ Parameter value related to pressure will be initialized when changing unit of pressure.

■ Ordering Guide

HPX2000 -	①	②	Description
A	1	1	Diff. pressure : -25 ~ 25 Pa
		2	Diff. pressure : -125 ~ 125 Pa
		3	Diff. pressure : -500 ~ 500 Pa
H	0	Exclusive Model for Temperature, Humidity and Dew Point Temperature (External Input)	

※ Silicon Tube $\phi 6.0 \times 3.0$ 2M (※A tube is provided as a standard scope of supply.)

Accessory (Options)

Model	Description
AX7241	RS485 communication converter (RS485 to USB converter)
AX7243	RS485 communication converter (RS485 to USB converter) Isolated type
Extension nipple	When silicon tubes connection is required to measure differential pressure on its front side

