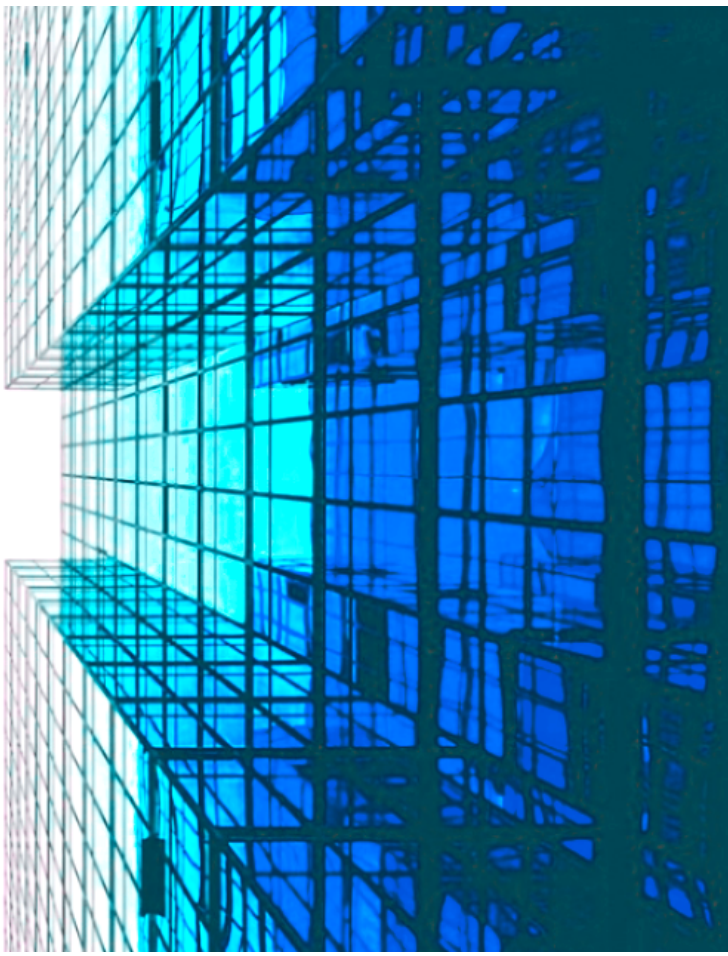
prixm controls™

PX-S1N
TRANSMITTER

2021 CATALOGUE



THE PX-S1N TRANSMITTER IS A RUGGED WALL MOUNT DEVICE WITH A LCD & MULTIPLE OUTPUT OPTIONS. THIS DEVICE SERVES AS A TRANSMITTER WITH BUILT-IN SENSORS FOR ENVIRONMENTAL TEMPERATURE & HUMIDITY.

GENERAL
FEATURES & SPECIFICATIONS

prixm controls

Electrical Features

- Input Voltage: 16~28VAC/ 16~35VDC
- Power: Current: 18.5~35VDC (Rload=500Ω)
  8.5~35VDC (Rload=0Ω)
- Output Load: ≤500Ω (current), ≥2KΩ (voltage)
- Relay Output: 2×SPST, 3A/30VDC, 3A/250VAC
- CE Approval

Environmental Limits

- Storage Temperature: -20° to 80° C
- Temperature Limit: -20~70°C, 5~95%RH (non-condensed)
- Operating Humidity: 10% to 90% RH (non-condensed)
- Ambient Atmosphere: No corrosive air
- Protection Level: IP30

Structure

- Cooling Method: Natural air cooling
- Material: fire retardant PC (UL94V-0)
- External Dimension: 115mm (L) x 83mm (W) x 30.6mm (H)
- Net weight: Approx. 110g

Display

- Display and Keys: 4 digits LCD, with unit indication, backlight, 3 touch keys
- Display Resolution: 0.1°C, 0.1%RH

Sensors

Relative Humidity

- Sensor: Digital polymer
- Range: 0~100%RH
- Output: 4~20mA (2 wires), 0~10VDC (3 wires), RS485 (Modbus)
- Accuracy: 2, 3%RH (25°C, 20~80%RH)
- Response time: <10s (25°C, in slow air)
- Drift: <±0.5%RH/year

Temperature

- Sensor: Digital, RTD or thermistor, (see table)
- Range: 0~50°C
- Output: (see table)
- Accuracy: transmitter: <±0.4°C(0.3°C)@5~60°C, (see table)

Model	S1N							Room T/RH transmitter
RH Accuracy		2 3						±2%RH(0.3°C) ±3%RH(0.4°C)
RH Output			1 2 8					0~10VDC(3 wires) 4~20mA(2 wires) RS485/Modbus
Temp. Output				0 1 2 3 4 5 6 7 8 9 A				No 0~10VDC(3 wires) 4~20mA(2 wires) PT1000, ±0.2°C@25°C PT100, ±0.2°C@25°C NTC20K, ±0.2°C@25°C Ni 1000, ±0.5°C@25°C NTC10K-II, 0.2°C@25°C RS485/Modbus NTC10K-III, 0.3°C@25°C NTC10K-A, 0.3°C@25°C
Temp. Range					0 1 7			No 0~50°C others
Relay						0 1		No 2×SPST (4-20mA N/A)
LCD& Keys							0 1 2	No LCD LCD & Keys

- Current output products are powered on RH circuit, so RH circuit must be powered.
- When temp. output is 1 or 2, the range 1-7 is applicable. Otherwise, always use 0.