Data Sheet
SIG-5560 | PT100 Temperature Sensor Gateway

Overview

SIG-5560 is an industrial PT100 Temperature Sensor Gateway. This product consisting of a PT100 connection port and an FND(Flexible Numeric Display) for displaying a temperature.
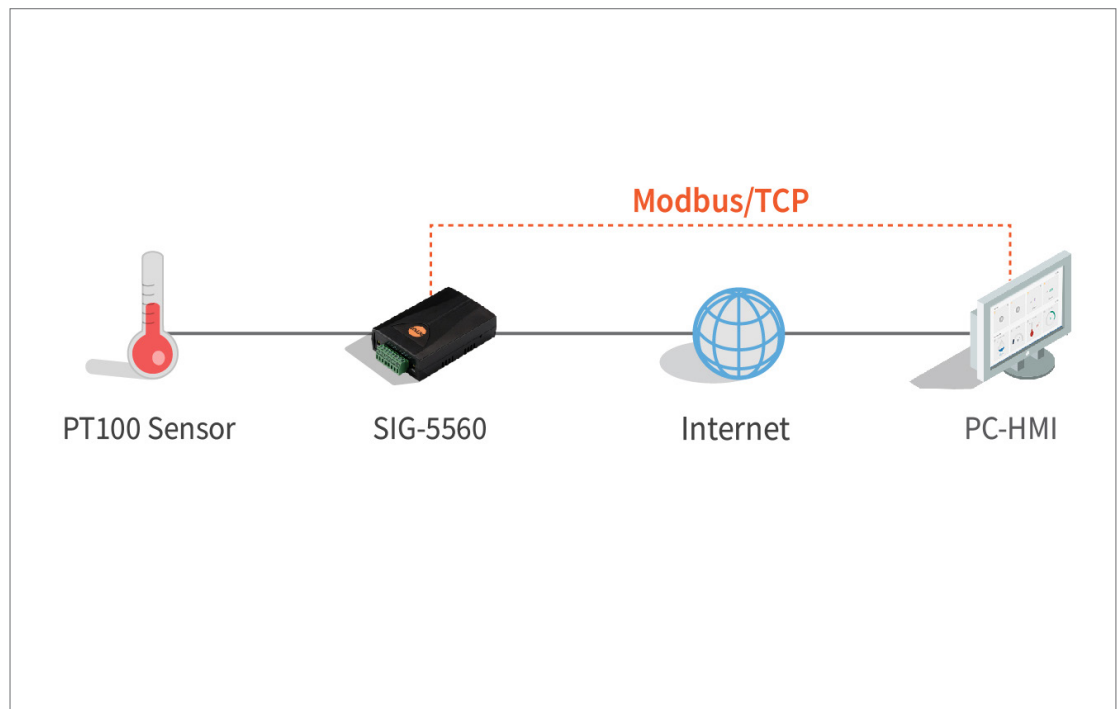
Users can remotely monitor the temperature measured by the sensor which is connected to this product by using Modbus/TCP.

Features

· PT100 connection port : support 3-wire PT100 sensors
· Display : a red 3-digit 7-segment LED
· Measurement Range : -200℃ ~ 850℃ (-328℉ ~ 1562℉)
· Measurement Error : within ±0.3℃ (±0.54℉)
· Protocol : Modbus/TCP
· Storing the lowest and the highest temperature
· Support multiple TCP connection (Max. 4 channels)
· Support a 1-bit ADC function for the Internet Switch
· Industrial temperature range (-40℃ ~ +85℃)
  * Internet Switch : A configuration that connects devices to each other without an HMI to transmit digital signals in both directions

System Diagram

Modbus/TCP

PT100 Sensor   SIG-5560   Internet   PC-HMI

Specifications

Analog Input	
Input Type	3-wire PT100 sensor (α=0.00385 Ω/(Ω·℃))
Resolution	16 bits
Number of Ports	1 port

Network Physical Interface	
Network Interface	10Base-T/100Base-TX Ethernet (RJ45)
	Ethernet Speed Auto Sense
	1:1 or Cross-over Cable Auto Sense

Software Functions	
Protocols	IPv4/IPv6 Dual Stack
	TCP/UDP
	ICMP, DHCP, mDNS, Modbus/TCP
	SSL/TLS

Indicators (LEDs)	
LED	PWR, RUN, 3-digit 7-segment LED

Management	
spFinder	Configuration and Monitoring Tool
Security	Password

RTC	
Capacitor	100uF
Peripherals	Realtime Clock, 4KB Backup SRAM

Dimension	
Size	94mm x 57mm x 24mm
Weight	About 64g

Operating Environments	
Input Voltage	DC5V±0.25V
Protection	Reverse Voltage Protection / Surge Protection
Current Consumption	Typically, 250mA
Operating Temperature	-40℃ ~ +85℃
Storage Temperature	-40℃ ~ +85℃

Certificate	
KC	Registration (KN 32, KN 35)
CE	EMC 2014/30/EU, RoHS 2011/65/EU
FCC	FCC Part 15 Subpart B, Class A