SOLLAE SYSTEMS

Data Sheet

SIG-5561 | Temperature Gateway to Sollae Cloud

Overview

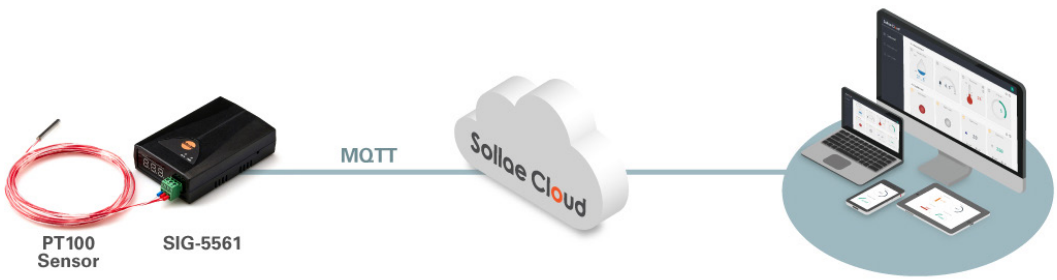
SIG-5561 is a temperature gateway that reads the temperature value from a resistance temperature detector PT100 and sends it to Sollae Cloud.

Users can log in to Sollae Cloud to see the visualized temperature value via a Web interface. The device is connected securely to Sollae IoT Cloud via MQTT protocol.

Features

- PT100 connection port : support 3-wire PT100 sensors
- Display : a red 3-digit 7-segment LED
- Measurement Range : -200 ~ 850 (-328°F ~ 1562°F)
- Measurement Error : within ±0.3 (±0.54°F)
- Protocol : MQTT (over TLS 1.2)
- Secure (TLS mutual authentication)
- Configurable thresholds to trigger relays on SIG-5451, SIG-5601 devices
- Configurable thresholds to trigger an alarm on web
- Connected to Sollae Cloud
- Widget-based visualization (dashboard)
- Customizable graphic visualization by Sollae Studio
- Industrial temperature range (-40℃ ~ +85℃)

System Diagram



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, SSL/TLS
Indicators (LEDs)	
LED	PWR, RUN, 3-digit 7-segment LED
Management	
spFinder	Configuration and Monitoring Tool
Security	Password
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