

1x 8 Array Thermal Infrared Temperature (5-200°C) Sensor, Modbus RS485

SenseO is an Infrared Array based Digital Temperature Transmitter designed for IOT applications in Industry. Based on OMRON's 1 x 8 **Array Thermal Infrared Temperature**, it is a cost effective for measuring temperature in a non contact manner. The sensor has 54 x 5.5deg viewing angle and provides 1 x 8 elements temperature data (5 -200 degC). The captured data is transmitter over RS485 using Modbus RTU Protocol. The device can be easily integrated with any RTU, PLC or IOT Gateway. Sensor also has two laser pointer mounted on the same viewing angle as the sensor thereby getting a fairly good idea of the line the sensor would be covering. Best for mounting in Panels to monitor unobtrusively the temperature at joints, lugs etc.

General

Connectors 1 x Plug-in terminal blocks (#14 ~ 28 AWG)

Support Protocol Modbus/RTU

Isolation Voltage 2500 VDC

Sensor

1 x 8 Thermal Infrared Sensor

Viewing Angle : 54.5 x 5.5 deg

Object Temperature : 5- 200 degC

Reference temp. Detection Range : 5- 45 deg C

Laser Spotter – 2Nos (for Aligning the Sensor Viewing Area)

CPU

32 bit CPU

Bluetooth based Configuration using Android Mobile App+Monitoring

During Configuration , Laser Spotter ON/OFF thru Bluetooth

RS485 Modbus Slave for connection to Gateway ,PLC ,RTU

(8x Temperature Registers)

Common Specs

Aux Power : 10-30 VDC

Mounting :Backplate / DIN Rail(TS35)

Dimension :80 (H) x 80 (W) x 25 (D) mm

Material :Sheet Metal

IP Rating :IP54

Operating Temperature :0- 70 degC

Application: Control Panel of production line Equipment, Cubicle,

Factory Automation Panels

Function: Abnormal heat detection of inverter, servo,

power supply, contactor, terminals inside of control panel boxes

Customer value: Reduction of Maintenance Costs, Prevention

of Production line Stoppages / Fire



FIG -B

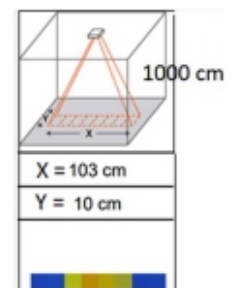
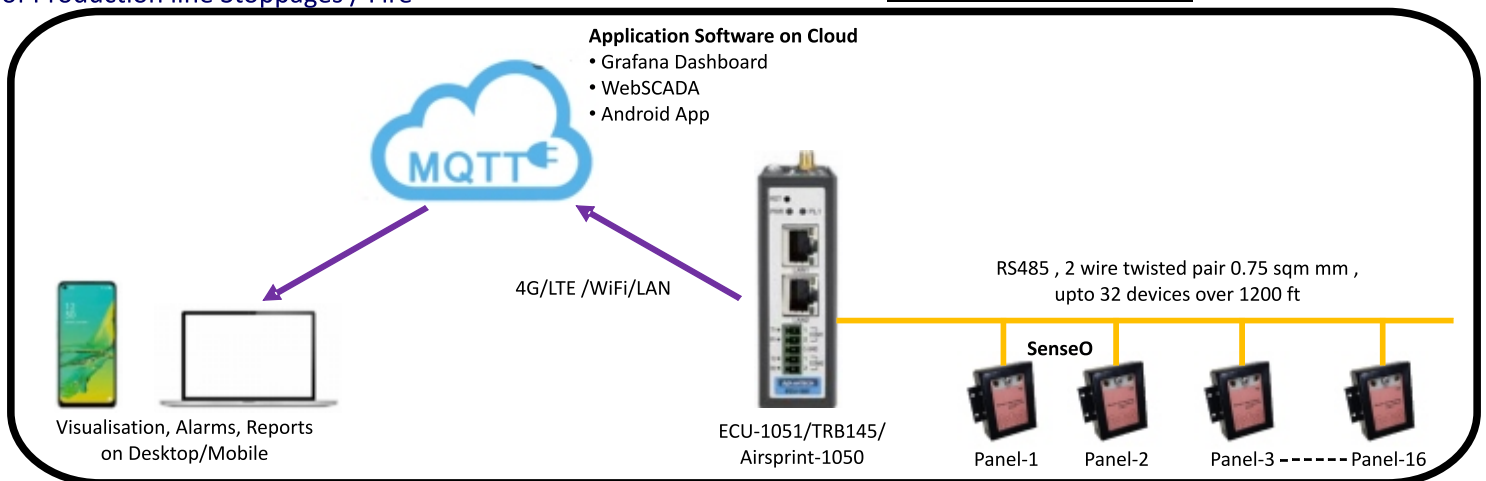


FIG -C

Use Case Schematic



Ordering Info:-

1. SenseO :1x 8 Array Thermal Infrared Temperature (5-200 DegC)



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