

## **S040**

# **Atmospheric Sensor**

The SUTO S040 Atmospheric Sensor is a reliable and accurate instrument for simultaneous measurement of temperature, humidity and air pressure. With its multi-parameter capabilities and flexible options, it is designed to meet the diverse needs of various industrial applications.



#### ALL IN ONE

Temperature, humidity, atmospheric pressure



#### EASY INSTALLATION

Incl. wall mounting clip



#### MODBUS/RTU

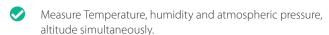
Digital data



#### COMPACT DESIGN

Installation in

### Benefits







Modbus/RTU digital data output

High protection class IP66 for harsh environmental conditions

Simple installation and efficient handling



### **Application**

- Compressor efficiency: FAD calculation for compressor tests
- HVAC & Industrial: Optimise air quality and conditions in manufacturing and warehousing.
- Labs & Automation: Supports controlled environments and intelligent building integration.

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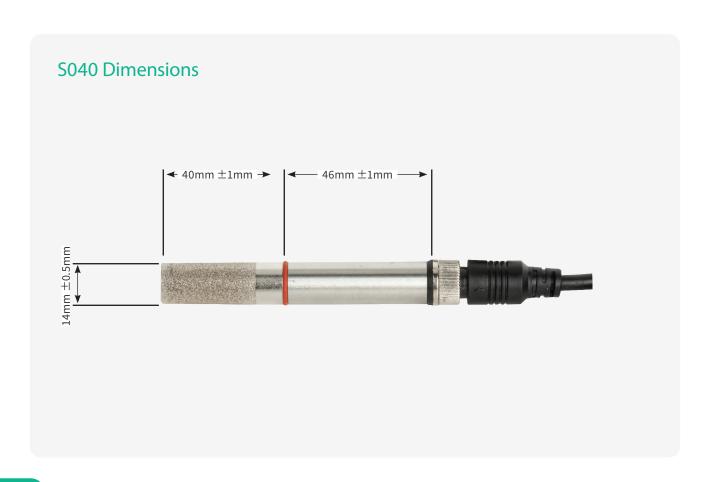
## Technical Data

Measurement	
Temperature	
Measuring range	-40 °C 80 °C
Accuracy	±0.3 ℃
Resolution	0.1 °C
Response time (T <sub>50</sub> )	1 5 s
Humidity	
Measuring range	0 100 % RH
Accuracy	±2 % RH @ 25 °C
Resolution	0.1 % RH
Response time (T <sub>50</sub> )	1 5 s
Atmospheric pressure	
Measuring range	0.3 120 kPa
Accuracy	±10 Pa
Resolution	1 Pa
Response time (T <sub>50</sub> )	1 5 s

Signal / Interface & Supply		
Power supply	5 24VDC	
Communication protocol	Modbus/RTU	
Hardware interface	RS-485	

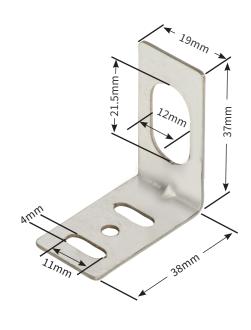
Operating conditions		
Ambient temperature	-40 °C 80 °C	
Ambient humidity	0 100 % RH	
Medium	Air, N <sub>2</sub> , CO <sub>2</sub>	
Operating Pressure	Atmospheric pressure (0.3 120 kPa)	

General data	
Electrical connection	M12 connector, 4 pole
Housing material	SS304
Protection class	IP66/67
Weight	75 g
Approvals	CE
Transport Temperature	-55 °C 80 °C
Storage temperature	-55 °C 80 °C



### Installation L-shaped mounting bracket





Metarial: SS304 Thickness: 1mm

## Ordering

Please use the following table to assist in placing your order with our sales staff.

#### **S040 Atmospheric Sensor**

#### Order No. Description

S654 0400

S040 Atmospheric sensor, measures temperature, humidity and atmospheric pressure, Modbus/RTU (RS-485), Supply: 5 ... 24 VDC, incl. M12 cable with open ends, 5m

Optional display units: S330, S331,S335

Please contact SUTO iTEC for further information on how to connect the S040 Atmospheric Sensor to a display unit via Modbus/RTU.



