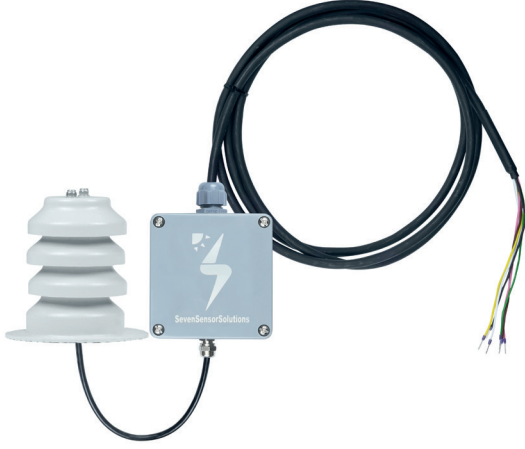


Ambient Temperature Sensor



The Ambient Temperature Sensor is part of the SEVEN meteorological sensor range, which includes professional and intelligent measuring sensors with a digital or analog interface for environmental and industrial applications such as PV plants.

The temperature sensor is protected by UV resistant shield which is delivered with the product. The Ambient Temperature Sensor is a measuring transmitter used for the measuring of the ambient temperature.

The measured ambient temperature data is transmitted as analog or digital output signals to the data loggers and receiver units according to the input requirements.

SEVEN products use reliable and high-quality components to provide accurate meteorological information in environmental and industrial applications.

They are specially designed according to IEC 60751:2022 and IEC 61724-1:2021 Annex B the requirements of PV plant monitoring systems.

Benefits and Features

- Protection Shield Included
- High Accuracy
- Fast & Simple to Install
- Free Software Update
- SunSpec Compliant (for Modbus RTU)
- SEVEN Remote Setup Service
- SEVEN Customer Support
- 2 Years Warranty

Models

3S-AT-PT1000

It is a measuring transmitter with PT1000 output used for the measurement of the ambient temperature. The measuring values are transmitted as ohmic resistance signals. It can be connected to SEVEN Irradiance Sensor, Sensor Box models, or Compact Weather Station With a 6-pin connector with IP 67 protection class. Also, it can be connected directly to data loggers and other receiving units.



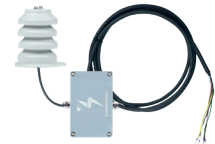
3S-AT-PT1000-I

Ambient temperature sensors with analog 4-20 mA output is specially designed for advanced environmental conditions. The ambient air temperature is detected by a high precision PT1000 sensor and converted to analog 4-20 mA output with an electronic card placed in UV resistant and high protection box.



3S-AT-PT1000-U

Ambient temperature sensors with analog 0-10 V output is specially designed for advanced environmental conditions. The ambient air temperature is detected by a high precision PT1000 sensor and converted to analog 0-10 V output with an electronic card placed in UV resistant and high protection box.



3S-AT-PT1000-MB

Professional and intelligent measuring sensors with a digital interface for environmental and industrial applications such as PV plants. The measured value can be transmitted to monitoring instruments, data loggers and other receiving units via the serial RS485 interface with MODBUS RTU protocol.



3S-AT-PT1000

Ambient Temperature Sensor



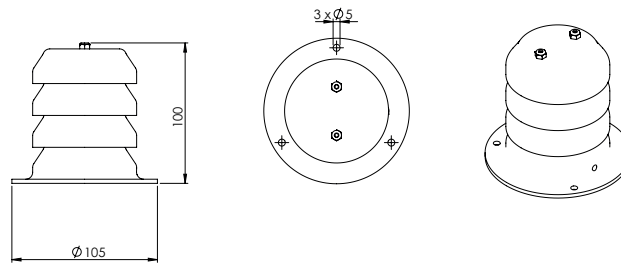
Technical Specifications

	3S-AT-PT1000	3S-AT-PT1000-MB	3S-AT-PT1000-I	3S-AT-PT1000-U
Sensor Type	PT1000			
Measuring Range	-40°C to +85°C			
Accuracy	±0.1°C			
Resolution	0.1°C			
Data Output	PT1000	RS485 up to 38400 Baud	Analog 4-20 mA	Analog 0-10 V
Communication Protocol	-	Modbus RTU	-	-
Power Supply	-	12 to 30 V DC		
Power Consumption	-	15 mA @ 24 V DC	30 mA @ 24 V DC	15 mA @ 24 V DC
Cable's Length & Features	1,5 m 2x2x0,22 mm² 24 AWG LI2YC11Y-TP PUR Cable, UV and Weather Resistant	1m 2x2x0,22 mm² 24 AWG L12YC11Y-TP PUR Cable and 2m 3x2x0,22 mm² L12YC11Y-TP PUR Cable Weather Resistant	1 m 2x2x0,22 mm² 24 AWG LI2YC11Y-TP PUR Cable and 2 m 2x2x0,22 mm² LI2YC11Y-TP PUR Cable Weather Resistant	
Operating Temperature Range	-40°C to +85°C			
Box Dimensions	-	80 mm x 82 mm x 55 mm (W x L x H)		65 mm x 115 mm x 55 mm (W x L x H)
Shield Dimensions	Ø 105 mm x 100 mm			
Weight	202 gr	500 gr		521 gr
IP Rating	IP 67			
Box Material	-	ABS*		
Sensor Housing Material	Stainless Steel Tube			
Shield Material	UV-Stabilized ABS			
Mounting Method	Ground Mounting			
Standard	Class A according to IEC 60751:2022			
Origin	TÜRKİYE			

*Since this product contains plastic parts, color changes may occur when exposed to direct sunlight.

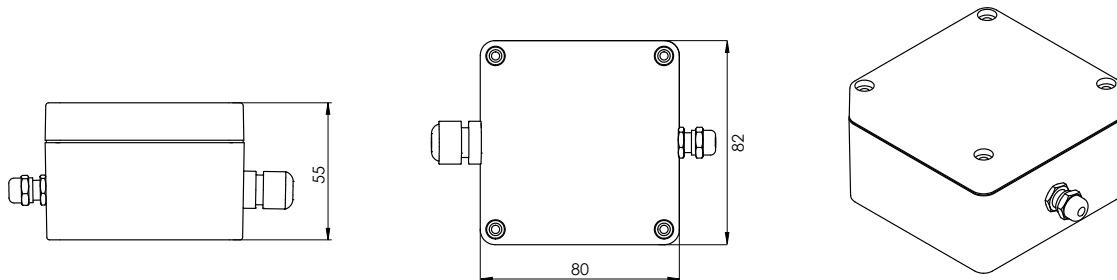
Technical Drawings

Technical Drawing of 3S-AT-PT1000



Note: All dimensions are in mm.

Technical Drawing of 3S-AT-PT1000-I, 3S-AT-PT1000-MB



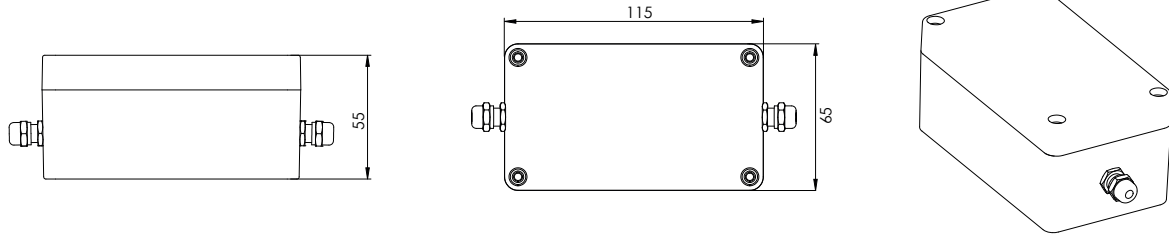
Note: All dimensions are in mm.

3S-AT-PT1000

Ambient Temperature Sensor



Technical Drawing of 3S-AT-PT1000-U



Note: All dimensions are in mm.

*** SEVEN has the right to make modifications on this documentation without notice.