

SOL-SC-WTH-STN - Weather station



1322110

<https://www.phoenixcontact.com/in/products/1322110>

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Weather station for acquiring measured data from connected environmental sensors. Together with SOL-ES sensors, it can be used in PV parks or other industrial areas, for example. The measured data is made available to the user via a user interface and transmitted to a higher-level data management system.

Product description

The meteorological data acquisition system with PLCnext Control from Phoenix Contact is part of the integrated PV park management. The system can also be used as a stand-alone system.

Together with the SOL-ES-type environmental sensors, Phoenix Contact also provides a complete solution that can be integrated directly into the Phoenix Contact control system. Each sensor is in accordance with IEC 61724-1 Class A. It supplies measured data with the highest precision. The weather station is therefore ideal for use in PV parks. The station provides information on the efficiency of your photovoltaic system at all times. The sensors are connected via M12 connectors. A daisy-chain connection can be created easily using an M12 Y distributor (see the "Accessories" tab).

The application software with web-based management available separately in the PLCnext Store allows the sensors to be started up without prior programming knowledge, since all sensors connected via Modbus are detected automatically thanks to the auto-configuration feature. The integrated controller transmits the sensor data to a higher-level system via standardized protocols such as Modbus/TCP or PROFINET. With a supply voltage of 24 V DC, all sensors have reverse polarity protection.

IMPORTANT NOTE:

The application software is required to operate the weather station. You can purchase and download the corresponding licenses in the PLCnext Store (for links, see the "Downloads" tab). All desired sensors including mounting accessories (see the "Accessories" tab) have to be ordered separately.

Your advantages

- Supports high-level languages
- Standardized interfaces
- Sensor connection via M12 circular connector in industrial quality
- Installation of all compatible sensors via Plug and Play
- Flexible thanks to selectable sensors
- Easy startup without programming knowledge

Commercial data

Item number	1322110
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	*****
Product key	DTHAAA
GTIN	4063151609139
Weight per piece (including packing)	12.1 kg

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Weight per piece (excluding packing)	12.1 kg
Customs tariff number	85371091
Country of origin	DE

Technical data

Product properties

Product type	Weather station
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Insulation characteristics

Protection class	I
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Electrical properties

Control voltage	24 V DC
Nominal voltage U_N	230 V AC (50 Hz)
Nominal current I_N	0.95 A (at 230 V, 50 Hz)
Nominal power	220 W

Fuse

Recommended backup fuse:	16 A (Characteristic B, 1-pos.)
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Dimensions

External dimensions

Width / Height / Depth	400 mm / 654 mm / 213 mm (with extensions)
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Material specifications

Material Housing	Polycarbonate
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Cable/line

Cable entry

Type of cable entry	Cable gland
	Connector
Connection technology	Screw connection
	Push-in connection

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP65
Ambient temperature (operation)	-25 °C ... 50 °C
Permissible humidity (operation)	≤ 95 % (at 25 °C, non-condensing)
Air pressure (operation)	70 kPa ... 106 kPa (up to 2000 m above mean sea level)

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Classifications

ECLASS

ECLASS-11.0	27142422
ECLASS-13.0	27370190

ETIM

ETIM 9.0	EC012357
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UNSPSC

UNSPSC 21.0	39121100
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes, No exemptions
China RoHS	
Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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Accessories

SOL-SC-DL-1-100-2-1-1-1-0 - Data logger

1160745

<https://www.phoenixcontact.com/in/products/1160745>



Data logger for recording all relevant data in one PV park. With temporary data storage and automatic device detection (auto detection mode). With options for data visualization and efficient monitoring using a higher-level data management system.

SOL-SC-PCU-1-000-2-0-0 - Switchgear and controlgear assembly

1160749

<https://www.phoenixcontact.com/in/products/1160749>



Control cabinet solution with a PLCnext Control device. Prepared for a customer-specific application with a power generation plant controller. Basis for the feed-in management of power generation systems that feed into medium- and high-voltage grids.

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SOL-ES-PRO-PYR - Sensor

1074979

<https://www.phoenixcontact.com/in/products/1074979>



Lambrecht Meteo GmbH pyranometer for measuring the irradiation intensity in W/m^2 with a 180° aperture opening. The measurement value is provided via Modbus/RTU (RS-485). Corresponds to the accuracy class "Secondary Standard" in accordance with ISO 9060

SOL-ES-BSC-PYR - Sensor

1093211

<https://www.phoenixcontact.com/in/products/1093211>



Lambrecht Meteo GmbH pyranometer for measuring the irradiation intensity in W/m^2 with a 180° aperture opening. The measurement value is provided via Modbus/RTU (RS-485). Corresponds to the accuracy class "First Class" in accordance with ISO 9060

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SOL-ES-PRO-WD - Sensor

1074975

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Lambrecht Meteo GmbH wind direction sensor. The measurement value is provided via Modbus/RTU (RS-485).

SOL-ES-PRO-WS - Sensor

1074976

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Lambrecht Meteo GmbH wind speed sensor. The measurement value is provided via Modbus/RTU (RS-485).

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SOL-ES-PRO-THP - Sensor

1074977

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Temperature, humidity, and air pressure sensor from Lambrecht Meteo GmbH, including holder. The measured value is provided via Modbus/RTU (RS-485).

SOL-ES-PRO-RF - Sensor

1074978

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Lambrecht Meteo GmbH precipitation sensor with weighing technology, for measuring precipitation amounts and intensities, unheated. The measured value is provided via Modbus/RTU (RS-485).

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SOL-ES-PRO-RC - Sensor

1074982

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A IMT Technology GmbH silicon solar radiation sensor, type Si-RS485TC-T-MB, used to measure the irradiation intensity in W/m^2 . The measurement value is provided via Modbus/RTU (RS-485).



SOL-ES-PRO-MT - Sensor

1074983

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Lambrecht Meteo GmbH PV module temperature sensor consisting of Pt 100 Modbus converter and Pt 100 temperature sensor. The measurement value is provided via Modbus/RTU (RS-485).



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SOL-ES-TRA-750 - Holder

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Traverse with Lambrecht Meteo GmbH mast holder, length: 750 mm, comprising anodized aluminum and stainless steel components. Suitable for accommodating weather sensors from the SOL-ES series.

SOL-ES-SENSOR-HOLDER-SMALL - Holder

1406698

<https://www.phoenixcontact.com/in/products/1406698>



Sensor bracket from Lambrecht Meteo GmbH, stainless steel, small. Suitable for accommodating certain weather sensors of type SOL-ES, see accessories.

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SOL-ES-SENSOR-HOLDER-LARGE - Holder

1406811

<https://www.phoenixcontact.com/in/products/1406811>

Sensor bracket from Lambrecht Meteo GmbH, stainless steel, large. Suitable for accommodating certain weather sensors of type SOL-ES, see accessories.



SOL-ES-SENSOR-HOLDER-INCLINED - Holder

1407252

<https://www.phoenixcontact.com/in/products/1407252>

Sensor bracket from Lambrecht Meteo GmbH, stainless steel, angular. Suitable for accommodating certain weather sensors of type SOL-ES, see accessories.



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SAC-5PY-F/M-F VP SH - Y distributor

1419933

<https://www.phoenixcontact.com/in/products/1419933>



Y distributor, 5-position, shielded, Socket straight M12 SPEEDCON, coding: A, on Socket straight M12 SPEEDCON, coding: A and Plug straight M12 SPEEDCON, coding: A, Parallel distributor

SACC-M12FS-4PL SH - Connector

1424668

<https://www.phoenixcontact.com/in/products/1424668>



Connector, Universal, 4-position, shielded, Socket straight M12, coding: A, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

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SACC-M12MS-4PL SH - Connector

1424666

<https://www.phoenixcontact.com/in/products/1424666>



Connector, Universal, 4-position, shielded, Plug straight M12, coding: A, Push-lock spring connection, knurl material: Zinc die-cast, nickel-plated, external cable diameter 4 mm ... 8 mm

SAC-4P-100,0-PUR/SH-0,25 - Cable reel

1535794

<https://www.phoenixcontact.com/in/products/1535794>



By the meter, Cable reel, shielded, PUR halogen-free, black-gray RAL 7021, 4-wire, color single wire: brown, white, blue, black, cable length: 100 m

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WP-PA HF 13,0 BK - Protective hose

3240681

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Protective hose, material: PA 6, UV-resistant: yes, flexible, degree of protection: IP68, color: black, flammability rating in acc. with UL 94: V0, inside diameter: 10 mm, Total length: 50 m

SAC-4P-M12MS/ 0,6-PUR/M12FS SH - Sensor/actuator cable

1500855

<https://www.phoenixcontact.com/in/products/1500855>



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, shielded (Advanced Shielding Technology), Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 0.6 m

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SAC-4P-M12MS/ 1,5-PUR/M12FS SH - Sensor/actuator cable

1500868

<https://www.phoenixcontact.com/in/products/1500868>



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, shielded (Advanced Shielding Technology), Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 1.5 m

SAC-4P-M12MS/ 3,0-PUR/M12FS SH - Sensor/actuator cable

1500871

<https://www.phoenixcontact.com/in/products/1500871>



Sensor/actuator cable, 4-position, PUR halogen-free, black-gray RAL 7021, shielded (Advanced Shielding Technology), Plug straight M12, coding: A, on Socket straight M12, coding: A, cable length: 3 m

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