IMT TECHNOLOGY

DATA SHEET

Accessories for Sensors



Complementary Sensors, Junction Boxes and more

Gain a broader perspective of weather conditions and expand your system effortlessly with our accessories for Si sensors. Our robust temperature sensors and anemometers can be easily connected to selected Si sensors and deliver useful data instantly. The convenient junction box set ensures your cabling is neat and tidy and allow multiple sensors to be installed in a daisy chain layout. We recommend using Shield-Tamb-Si weather and radiation protection for greater precision in ambient temperature sensors.

Benefits & Features

- Temperature sensors:
  With Pt1000 precision sensor element as per IEC 60751 Class A
- Module temperature sensors:
  Meet all IEC 61724-1 requirements
- Ambient temperature sensors:
  With weather and radiation protection meet all IEC 61724-1 requirements
- Junction Box Set:
  Effortless cable extension and creation of RS485 bus junctions (daisy chain)
- Quick and easy installation of all accessories

Type Overview

Type	Measurement / Function	Compatibility
Tamb-Si	Ambient temperature sensor	Si-RS485TC-2T-v-MB Si-RS485TC-3T-MB
Tmodul-Si	PV module temperature sensor	Si-RS485TC-2T-v-MB Si-RS485TC-3T-MB
Vwind-Si	Wind speed sensor	Si-RS485TC-2T-v-MB
Shield-Tamb-Si	Weather and radiation shield for ambient temperature sensor	Tamb-Si Si-RS485TC-2T-MB Ta-ext-RS485-MB Ta-ext-V-4090 Ta-ext-I-4090 Ta-ext-Pt1000
JB-01	Junction box set with cable glands and spring terminals	All products

Technical Data

Tamb-Si 	Sensor element	Pt1000 class AA as per EN 60751
	Operating temperature	-40 to +90 °C
	Sensor housing	INOX steel tube Ø 6 mm L 50 mm
	Degree of protection	IP 67
	Connection cable	Length: 3 m, PUR sheath, shielded LiYC11Y, 2 x 0.25 mm²
	Weight	85 g
	Customs tariffe number	90 25 19 00
Tmodul-Si 	Sensor element	Pt1000 class A as per EN 60751
	Operating temperature	-40 to +90 °C
	Sensor housing	Self-adhesive aluminium block, 35 mm x 12 mm x 6 mm
	Degree of protection	IP 67
	Connection cable	Length: 3 m, PUR sheath, shielded (LiYC11Y, 2 x 0.25 mm²)
	Weight	85 g
	Customs tariff number	90 25 19 00
Vwind-Si 	Sensor type	Cup star anemometer
	Signal	Reed relay, 2.5 Hz/(m/s)
	Measurement range	0.9 to 40 m/s (60 m/s for short time)
	Measurement uncertainty	0.5 m/s or 5 % of measurement value
	Weight	350 g
	Size (without holder)	134 x 160 mm
	Degree of protection	IP 54
	Operating temperature	-25 to +60 °C (without icing)
	Connection cable	Length: 5 m, PUR sheath, shielded (LiYC11Y, 4 x 0.14 mm²)
	Customs tariff number	90 15 80 20
Shield-Tamb-Si 	Size	71 mm x 109 mm x 272 mm
	Weight	270 g
	Material	Plastic, INOX
	Customs tariff number	90 25 90 00
JB-01 	Operating temperature	-35 to +80 °C
	Degree of protection	IP 66
	Case size	94 mm x 65 mm x 57 mm
	Weight	160 g
	Case material	Polycarbonat
	Cable specification	Outer cable diameter 4 to 6 mm Wire gauge 0.14 to 4 mm²
	Customs tariff number	85 36 90 10

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