SIEMENS

Data sheet

6AG1231-5PA30-5XB0



SIPLUS S7-1200 SB 1231 1AI RTD based on 6ES7231-5PA30-0XB0 with conformal coating, -40...+60 °C, start up -25 °C, SIPLUS S7-1200, analog input, SB 1231RTD, 1 AI RTD, Pt100 and Pt1000

| General information | |
|---|------------------------------------|
| Product type designation | SB 1231, AI 1x16 bit RTD |
| Supply voltage | |
| Rated value (DC) | 24 V |
| Input current | |
| Current consumption, typ. | 5 mA |
| from backplane bus 5 V DC, typ. | 20 mA |
| Power loss | |
| Power loss, typ. | 0.5 W |
| Analog inputs | |
| Number of analog inputs | 1; Resistance thermometer |
| permissible input voltage for current input (destruction limit), max. | ±35 V |
| Technical unit for temperature measurement adjustable | Degrees Celsius/degrees Fahrenheit |
| Input ranges | о о о |
| Voltage | Yes |
| Current | No |
| Thermocouple | No |
| Resistance thermometer | Yes; Platinum (Pt) |
| Resistance | Yes; 150 Ω, 300 Ω, 600 Ω |
| Input ranges (rated values), voltages | |
| -80 mV to +80 mV | |
| Input resistance (-80 mV to +80 mV) | >= 10 MOhm |
| Input ranges (rated values), resistance thermometer | |
| • Pt 100 | Yes |
| — Input resistance (Pt 100) | 100 Ω |
| • Pt 1000 | Yes |
| — Input resistance (Pt 1000) | 1 000 Ω |
| • Pt 200 | Yes |
| — Input resistance (Pt 200) | 200 Ω |
| • Pt 500 | Yes |
| — Input resistance (Pt 500) | 500 Ω |
| Input ranges (rated values), resistors | |
| • 0 to 150 ohms | Yes |
| • 0 to 300 ohms | Yes |
| • 0 to 600 ohms | Yes |
| Thermocouple (TC) | |
| Temperature compensation | |
| — parameterizable | No |
| Analog outputs | |
| Number of analog outputs | 0 |

| Analog value generation for the inputs | |
|--|--|
| Measurement principle | integrating |
| Integration and conversion time/resolution per channel | integrating |
| Resolution with overrange (bit including sign), max. | 15 bit; + sign |
| Integration time, parameterizable | No |
| Interference voltage suppression for interference | 85 dB at 10 / 50 / 60 / 400 Hz |
| frequency f1 in Hz | 65 dB at 107 507 007 400 HZ |
| Errors/accuracies | |
| Temperature error (relative to input range), (+/-) | 25 °C ±0.1%, up to 55 °C ±0.25% total measurement range |
| Repeat accuracy in steady state at 25 °C (relative to | 0.05 % |
| output range), (+/-) | |
| Interference voltage suppression for f = n x (f1 +/- 1 %), f1 = | interference frequency |
| Common mode interference, min. | 120 dB |
| Interrupts/diagnostics/status information | |
| Alarms | Yes |
| Diagnostics function | Yes; Can be read out |
| Alarms | |
| Diagnostic alarm | Yes |
| Diagnoses | |
| Wire-break | Yes |
| Diagnostics indication LED | |
| for status of the inputs | Yes |
| for maintenance | Yes |
| Ambient conditions | |
| | |
| Free fall | |
| Fall height, max. | 0.3 m; five times, in product package |
| Ambient temperature during operation | |
| • min. | -40 °C; = Tmin (incl. condensation/frost); start-up @ -25 °C |
| • max. | 60 °C; = Tmax |
| • vertical installation, min. | -40 °C; = Tmin; Startup @ -25 °C |
| vertical installation, max. | 50 °C; = Tmax |
| Ambient temperature during storage/transportation | (0.20 |
| • min. | -40 °C |
| • max. | 70 °C |
| Altitude during operation relating to sea level | 5 000 |
| Installation altitude above sea level, max. | 5 000 m |
| A set is set and a set of the set | |
| Ambient air temperature-barometric pressure- altitude | Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa - 658 hPa (+2 000 m - +3 500 m) // Tmin |
| Ambient air temperature-barometric pressure- altitude | Tmin Tmax at 1 140 hPa 795 hPa (-1 000 m +2 000 m) // Tmin (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) |
| | (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin |
| altitude | (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin |
| altitude Relative humidity | (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) |
| altitude Relative humidity • With condensation, tested in accordance with IEC | (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) 100 %; RH incl. condensation / frost (no commissioning in bedewed |
| altitude Relative humidity • With condensation, tested in accordance with IEC 60068-2-38, max. | (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) 100 %; RH incl. condensation / frost (no commissioning in bedewed |
| altitude Relative humidity • With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants — Resistant to commercially available coolants | (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) 100 %; RH incl. condensation / frost (no commissioning in bedewed |
| altitude Relative humidity • With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants | (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation |
| altitude Relative humidity • With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants Use in stationary industrial systems | (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation Yes; Incl. diesel and oil droplets in the air |
| altitude Relative humidity • With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants Use in stationary industrial systems — to biologically active substances according to | (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation Yes; Incl. diesel and oil droplets in the air Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of |
| altitude Relative humidity • With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants Use in stationary industrial systems — to biologically active substances according to EN 60721-3-3 | (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation Yes; Incl. diesel and oil droplets in the air Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request |
| altitude Relative humidity • With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants Use in stationary industrial systems — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to | (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation Yes; Incl. diesel and oil droplets in the air Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 |
| altitude Relative humidity • With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants — Resistant to commercially available coolants and lubricants Use in stationary industrial systems — to biologically active substances according to EN 60721-3-3 — to chemically active substances according to EN 60721-3-3 | (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation Yes; Incl. diesel and oil droplets in the air Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
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| altitude Relative humidity With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants Resistant to commercially available coolants and lubricants Use in stationary industrial systems Luse in stationary industrial systems - to biologically active substances according to EN 60721-3-3 - to chemically active substances according to EN 60721-3-3 - to mechanically active substances acco | (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation Yes; Incl. diesel and oil droplets in the air Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
| altitude Relative humidity With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants Resistant to commercially available coolants and lubricants Use in stationary industrial systems Lo biologically active substances according to EN 60721-3-3 To chemically active substances according to EN 60721-3-3 To mechanically active substances according to EN 60721-3-3 To mechanically active substances according to EN 60721-3-3 Use on ships/at sea | (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation Yes; Incl. diesel and oil droplets in the air Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 3S4 incl. sand, dust, * |
| altitude Relative humidity With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants Resistant to commercially available coolants and lubricants Use in stationary industrial systems Luse in stationary industrial systems - to biologically active substances according to EN 60721-3-3 - to chemically active substances according to EN 60721-3-3 - to mechanically active substances acco | (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation Yes; Incl. diesel and oil droplets in the air Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * |
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| altitude Relative humidity With condensation, tested in accordance with IEC 60068-2-38, max. Resistance Coolants and lubricants Resistant to commercially available coolants and lubricants Use in stationary industrial systems - to biologically active substances according to EN 60721-3-3 - to chemically active substances according to EN 60721-3-3 - to mechanically active substances according to EN 60721-3-3 Use on ships/at sea - to biologically active substances according to EN 60721-3-6 - to chemically active substances according to EN 60721-3-6 - to mechanically active substances according to EN 60721-3-6 - to mechanically active substances | (Tmax - 10 K) at 795 hPa 658 hPa (+2 000 m +3 500 m) // Tmin (Tmax -20 K) at 658 hPa 540 hPa (+3 500 m +5 000 m) 100 %; RH incl. condensation / frost (no commissioning in bedewed state), horizontal installation Yes; Incl. diesel and oil droplets in the air Yes; Class 3B2 mold, fungus and dry rot spores (with the exception of fauna); Class 3B3 on request Yes; Class 3C4 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6B2 mold and fungal spores (excluding fauna); Class 6B3 on request Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6C3 (RH < 75 %) incl. salt spray acc. to EN 60068-2-52 (severity degree 3); * Yes; Class 6S3 incl. sand, dust; * |

| * The supplied plug covers must remain in place over the unused interfaces during operation! |
|--|
| |
| Yes; Class 2 for high reliability |
| Yes; Type 1 protection |
| Yes; Discoloration of coating possible during service life |
| Yes; Conformal coating, Class A |
| |
| Yes |
| |
| |
| Yes |
| |
| 38 mm |
| 62 mm |
| 21 mm |
| |
| 35 g |
| |
| 12/18/2020 🖸 |
| |