SIEMENS

Data sheet

6ES7531-7PF00-0AB0



SIMATIC S7-1500 analog input module AI 8xU/R/RTD/TC HF, 16 bit resolution, up to 21 bit Resolution at RT and TC, accuracy 0.1%, 8 channels in groups of 1; common mode voltage: 30 V AC/60 V DC, Diagnostics; Hardware interrupts Scalable temperature measuring range, thermocouple type C, Calibrate in RUN; Delivery including infeed element, shield bracket and shield terminal: Front connector (screw terminals or push-in) to be ordered separately

General information	
Product type designation	AI 8xU/R/RTD/TC HF
HW functional status	From FS01
Firmware version	V1.1.0
FW update possible	Yes
Product function	
I&M data	Yes; I&M0 to I&M3
Isochronous mode	No
 Prioritized startup 	Yes
 Measuring range scalable 	Yes
 Scalable measured values 	No
 Adjustment of measuring range 	No
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	V14 / -
 STEP 7 configurable/integrated from version 	V5.5 SP3 / -
 PROFIBUS from GSD version/GSD revision 	V1.0 / V5.1
 PROFINET from GSD version/GSD revision 	V2.3 / -
Operating mode	
Oversampling	No
• MSI	Yes
CiR - Configuration in RUN	
Reparameterization possible in RUN	Yes
Calibration possible in RUN	Yes
Supply voltage	
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes
Input current	
Current consumption, max.	55 mA; with 24 V DC supply
Power	
Power available from the backplane bus	0.85 W
Power loss	
Power loss, typ.	1.9 W
Analog inputs	
Number of analog inputs	8; Plus one additional RTD (reference) channel
For voltage measurement	8; Plus one additional RTD (reference) channel
 For resistance/resistance thermometer measurement 	8; Plus one additional RTD (reference) channel
• For thermocouple measurement	8; Plus one additional RTD (reference) channel
permissible input voltage for voltage input (destruction limit),	20 V

max.	
Constant measurement current for resistance-type transmitter, typ.	150 Ohm, 300 Ohm, 600 Ohm, Cu10, Cu50, Cu100, Ni10, Ni100, Ni120, Ni200, Pt10, Pt50, Pt100, Pt200 climate: 1 mA; 6 kOhm, Ni500, Ni1000, LG-Ni1000, Pt200 standard, Pt500, Pt1000, PTC: 0.25 mA
Technical unit for temperature measurement adjustable	Yes; °C/°F/K
Input ranges (rated values), voltages	
• 0 to +5 V	No
• 0 to +10 V	No
• 1 V to 5 V	No
• -1 V to +1 V	Yes
- Input resistance (-1 V to +1 V)	10 ΜΩ
• -10 V to +10 V	No
• -2.5 V to +2.5 V	No
• -25 mV to +25 mV	Yes
— Input resistance (-25 mV to +25 mV)	10 ΜΩ
• -250 mV to +250 mV	Yes
— Input resistance (-250 mV to +250 mV)	10 ΜΩ
• -5 V to +5 V	No
• -50 mV to +50 mV	Yes
— Input resistance (-50 mV to +50 mV)	10 MΩ
• -500 mV to +500 mV	Yes
 Input resistance (-500 mV to +500 mV) -80 mV to +80 mV 	10 MΩ Vec
 -80 mV to +80 mV — Input resistance (-80 mV to +80 mV) 	Yes 10 ΜΩ
Input ranges (rated values), currents	10 1012
0 to 20 mA	No
• -20 mA to +20 mA	No
• 4 mA to 20 mA	No
Input ranges (rated values), thermocouples	no
• Type B	Yes
— Input resistance (Type B)	10 ΜΩ
• Type C	Yes
— Input resistance (Type C)	10 MΩ
• Type E	Yes
— Input resistance (Type E)	10 MΩ
• Type J	Yes
— Input resistance (type J)	10 ΜΩ
• Туре К	Yes
— Input resistance (Type K)	10 MΩ
• Type L	No
• Type N	Yes
— Input resistance (Type N)	10 MΩ
• Type R	Yes
— Input resistance (Type R)	10 ΜΩ
• Type S	Yes
— Input resistance (Type S)	10 ΜΩ
• Туре Т	Yes
— Input resistance (Type T)	10 ΜΩ
 Type TXK/TXK(L) to GOST 	Yes
 Input resistance (Type TXK/TXK(L) to GOST) 	10 MΩ
Input ranges (rated values), resistance thermometer	
• Cu 10	Yes; Standard/climate
— Input resistance (Cu 10)	10 ΜΩ
Cu 10 according to GOST	Yes; Standard/climate
— Input resistance (Cu 10 according to GOST)	10 ΜΩ
• Cu 50	Yes; Standard/climate
— Input resistance (Cu 50)	10 ΜΩ
Cu 50 according to GOST	Yes; Standard/climate
- Input resistance (Cu 50 according to GOST)	10 ΜΩ
• Cu 100	Yes; Standard/climate
— Input resistance (Cu 100)	10 ΜΩ

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- Input resistance (0 to 6000 ohms)	10 ΜΩ
PTC	Yes
— Input resistance (PTC)	10 ΜΩ
Thermocouple (TC)	
Temperature compensation	
— parameterizable	Yes
- internal temperature compensation	Yes
 — external temperature compensation via RTD 	Yes
 Compensation for 0 °C reference point temperature 	Yes; fixed value can be set
— Reference channel of the module	Yes; 9th channel that can be used as a genuine 9th RTD channel regardless of the parameterization of the other channels, or that can be used for compensation in the case of TC measurement
Cable length	
• shielded, max.	800 m; at U; 200 m at R/RTD/TC
Analog value generation for the inputs	
Integration and conversion time/resolution per channel	
 Resolution with overrange (bit including sign), max. 	21 bit; For measuring mode RTC and TC when using the function "Scalable temperature measuring range" (32 bit REAL format); 16 bit for measuring mode R and U; 16 bit for all measuring modes when using the S7 format (16 bit INTEGER)
 Integration time, parameterizable 	Yes
Integration time (ms)	Fast mode: 2.5 / 16.67 / 20 / 100 ms, standard mode: 7.5 / 50 / 60 / 300 ms
Basic conversion time, including integration time (ms)	Fast mode: 4 / 18 / 22 / 102 ms; Standard mode: 9 / 52 / 62 / 302 ms
 additional conversion time for wire-break monitoring 	Thermocouples, 150 Ohm, 300 Ohm, 600 Ohm, Cu10, Cu50, Cu100, Ni10, Ni100, Ni120, Ni200, Pt10, Pt50, Pt100: 4 ms; 6 kOhm, Ni500, Ni1000, LG-Ni1000, Pt200, Pt500, Pt1000: 13 ms
 Interference voltage suppression for interference frequency f1 in Hz 	400 / 60 / 50 / 10 Hz
 Basic execution time of the module (all channels released) 	Corresponds to the channel with the highest basic conversion time
Smoothing of measured values	
parameterizable	Yes
Step: None	Yes
Step: low	Yes
Step: Medium	Yes
Step: High	Yes
Encoder	
Connection of signal encoders	
for voltage measurement	Yes
for current measurement as 2-wire transducer	No
 for current measurement as 4-wire transducer for resistance measurement with two-wire connection 	No Yes
for resistance measurement with three-wire connection	Yes; All measuring ranges except PTC; internal compensation of the cable
	resistances
 for resistance measurement with four-wire connection 	Yes; All measuring ranges except PTC
Errors/accuracies	
Linearity error (relative to input range), (+/-)	0.02 %
Temperature error (relative to input range), (+/-)	0.005 %/K
Crosstalk between the inputs, max.	-80 dB
Repeat accuracy in steady state at 25 °C (relative to input range), (+/-)	0.02 %
Temperature error of internal compensation	±1,5 °C
Operational error limit in overall temperature range	0.1 %
 Voltage, relative to input range, (+/-) Resistance, relative to input range, (+/-) 	0.1 %
 Resistance thermometer, relative to input range, (+/-) 	Cuxxx Standard: ±0.5 K, Cuxxx Klima: ±0.5 K, Ptxxx Standard: ±1 K, Ptxxx Klima: ±0.5 K, Nixxx Standard: ±0.5 K, Nixxx Klima: ±0.3 K
• Thermocouple, relative to input range, (+/-)	Type B: > 600 °C ±2 K, Type E: > -200 °C ±1 K, Type J: > -210 °C ±1 K, Type K: > -200 °C ±2 K, Type N: > -200 °C ±2 K, Type R: > 0 °C ±2 K, Type S: > 0 °C ±2 K, Type T: > -200 °C ±1 K, Type C: ±4 K, Type TXK/TXK(L): ±1 K
Basic error limit (operational limit at 25 °C)	
Voltage, relative to input range, (+/-)	0.05 %
• Resistance, relative to input range, (+/-)	0.05 %
• Resistance thermometer, relative to input range, (+/-)	Cuxxx Standard: ±0.3 K, Cuxxx Klima: ±0.2 K, Ptxxx Standard: ±0.5 K, Ptxxx Klima: ±0.2 K, Nixxx Standard: ±0.3 K, Nixxx Klima: ±0.15 K

last modified:	9/7/2023 🖸
Note:	for the R/RDT three-wire measurement, the conductor compensation is made alternating with the measurement; this then requires two module cycles for a measured value
Other	
Weight, approx.	290 g
Weights	
Depth	129 mm
Height	147 mm
Width	35 mm
Dimensions	
vertical installation, max.	40 °C
• vertical installation, min.	-30 °C; From FS02
horizontal installation, max.	60 °C
horizontal installation, min.	-30 °C; From FS02
Ambient temperature during operation	
Ambient conditions	
Suitable for applications according to CQI-9	Yes; Based on AMS 2750 E
Suitable for applications according to AMS 2750	Yes; Declaration of Conformity, see online support entry 109757262
Standards, approvals, certificates	
Claudauda aururauda acutificadar	channels; 707 V DC (type test) between the supply voltage L+ and the backplane bus
Isolation lsolation tested with	2 000 V DC between the channels and the supply voltage L+; 2 000 V DC between the channels and the backplane bus; 2 000 V DC between the
	bus; between the channels
between different circuits	60 V DC/30 V AC; insulation rated for 120 V AC basic insulation: between the channels and the supply voltage L+; between the channels and the backplane
Permissible potential difference	
electronics	
 between the channels and the power supply of the 	Yes
between the channels and backplane bus	Yes
 between the channels, in groups of 	1
between the channels	Yes
Potential separation channels	
Potential separation	
for module diagnostics	Yes; red LED
 for channel diagnostics 	Yes; red LED
Channel status display	Yes; green LED
 Monitoring of the supply voltage (PWR-LED) 	Yes; green LED
• ERROR LED	Yes; red LED
• RUN LED	Yes; green LED
Diagnostics indication LED	
Overflow/underflow	Yes
Wire-break	Yes; Only with TC, R, RTD
 Monitoring the supply voltage 	Yes
Diagnoses	
Limit value alarm	Yes; two upper and two lower limit values in each case
 Diagnostic alarm 	Yes
Alarms	
Diagnostics function	Yes
Interrupts/diagnostics/status information	
Common mode interference, min.	80 dB
 Common mode voltage, max. 	60 V DC/30 V AC
rated value of input range), min.	
 Series mode interference (peak value of interference 	80 dB; in the Standard operating mode, 40 dB in the Fast operating mode
Interference voltage suppression for $f = n \times (f1 + /-1 \%)$, $f1 = interference$	
• Thermocouple, relative to input range, (+/-)	Type B: > 600 °C ±1 K, Type E: > -200 °C ±0.5 K, Type J: > -210 °C ±0.5 K, Type K: > -200 °C ±1 K, Type N: > -200 °C ±1 K, Type R: > 0 °C ±1 K, Type S: > 0 °C ±1 K, Type T: > -200 °C ±0.5 K, Type C: ±2 K, Type TXK/TXK(L): ±0.5 K
- Thermosourly relative to input report $(1/)$	Turne Dr. > 000 °C +4 K, Turne Fr. > 000 °C +0 5 K, Turne H. > 040 °C +0 5 K