SIEMENS

Data sheet

6ES7134-6PA21-0CU0



SIMATIC ET 200SP, analog input module, AI Energy Meter RC HF, for Rogowski coils or current/voltage transformer 333 mV, with network analysis functions, suitable for BU type U0, channel diagnostics

General information	
Product type designation	AI Energy Meter RC HF
Firmware version	V8.0
 FW update possible 	Yes
usable BaseUnits	BU type U0
Color code for module-specific color identification plate	CC20
Supported power supply systems	TT, TN, IT
Product function	
Voltage measurement	Yes
— without voltage transformer	Yes
— with voltage transformer	Yes
Current measurement	Yes; Max. 4
— without current transformer	No
— with current transformer	No
— With Rogowski coil	Yes
— With current-voltage-converter	Yes; 333 mV interface
 Energy measurement 	Yes
 Frequency measurement 	Yes
Power measurement	Yes
Active power measurement	Yes
 Reactive power measurement 	Yes
 Power factor measurement 	Yes
Active factor measurement	Yes
 Reactive power compensation 	Yes
• Line analysis	Yes
 Monitoring of instantaneous and half-wave values 	Yes
 — THD measurement for current and voltage 	Yes
 Harmonics for current and voltage 	Yes
— Voltage dip (DIP)	Yes
— Voltage swell	Yes
I&M data	Yes; I&M0 to I&M3
Isochronous mode	No
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	STEP 7 V16 or higher with HSP
 STEP 7 configurable/integrated from version 	V5.5 SP3 or higher
 PROFIBUS from GSD version/GSD revision 	One GSD file each, Revision 3 and 5 and higher
 PROFINET from GSD version/GSD revision 	V2.3
Operating mode	
 Switching between operating modes in RUN 	Yes; For module version 32 I/20 Q, it is possible to dynamically switch between 25 user data variants, 23 of which are pre-defined and 2 of which can be defined by the specific user

Cyclic measured value access	Vos		
 Cyclic measured value access Acyclic measured value access 	Yes		
Fixed measured value sets	Yes		
Freely definable measured value sets	Yes; For cyclic and acyclic measured value access		
CiR - Configuration in RUN			
Reparameterization possible in RUN	Voc		
Calibration possible in RUN	Yes		
Installation type/mounting			
Mounting position	any		
Supply voltage	04.14		
Rated value (DC)	24 V		
permissible range, lower limit (DC)	19.2 V		
permissible range, upper limit (DC)	28.8 V		
Input current	(0.5 A		
Current consumption (rated value)	12.5 mA		
Current consumption, max.	17 mA		
Power loss			
Power loss, typ.	400 mW; 3x 230 V AC		
Address area			
Address space per module			
• Inputs	256 byte		
Outputs	20 byte		
Hardware configuration			
Automatic encoding	Yes		
 Mechanical coding element 	Yes		
Type of mechanical coding element	type C		
Selection of BaseUnit for connection variants			
2-wire connection	BU type U0		
Time of day			
Operating hours counter			
Operating hours counter			
• present	Yes		
present Analog inputs			
• present	50 ms; Time for consistent update of all measured and calculated values (cyclic		
present Analog inputs Cycle time (all channels), typ.			
present Analog inputs Cycle time (all channels), typ. Cable length	50 ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data)		
present Analog inputs Cycle time (all channels), typ. Cable length • shielded, max.	50 ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) 200 m		
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• present Analog inputs Cycle time (all channels), typ. Cable length • shielded, max. • unshielded, max. Analog value generation for the inputs Sampling frequency, max.	50 ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) 200 m		
• present Analog inputs Cycle time (all channels), typ. Cable length • shielded, max. • unshielded, max. Analog value generation for the inputs Sampling frequency, max. Interrupts/diagnostics/status information	50 ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) 200 m 200 m		
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• present Analog inputs Cycle time (all channels), typ. Cable length • shielded, max. • unshielded, max. Analog value generation for the inputs Sampling frequency, max. Interrupts/diagnostics/status information Alarms • Diagnostic alarm	50 ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) 200 m 200 m 200 m 2 048 kHz Yes		
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• present Analog inputs Cycle time (all channels), typ. Cable length • shielded, max. • unshielded, max. • unshielded, max. Analog value generation for the inputs Sampling frequency, max. Interrupts/diagnostics/status information Alarms • Diagnostic alarm • Limit value alarm • Hardware interrupt	50 ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) 200 m 200 m 2 048 kHz Yes Yes Yes; Monitoring of up to 16 freely selectable process values (exceeding or		
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• present Analog inputs Cycle time (all channels), typ. Cable length • shielded, max. • unshielded, max. • unshielded, max. Analog value generation for the inputs Sampling frequency, max. Interrupts/diagnostics/status information Alarms • Diagnostic alarm • Limit value alarm • Hardware interrupt Diagnoses • Line quality • Supply voltage • Hardware interrupt lost • Parameter assignment error	50 ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) 200 m 200 m 200 m 2 048 kHz 7 es Yes Yes; Monitoring of up to 16 freely selectable process values (exceeding or undershooting of value) Yes Yes Yes Yes Yes Yes		
• present Analog inputs Cycle time (all channels), typ. Cable length • shielded, max. • unshielded, max. • unshielded, max. • unshielded, max. Analog value generation for the inputs Sampling frequency, max. Interrupts/diagnostics/status information Alarms • Diagnostic alarm • Limit value alarm • Hardware interrupt Diagnoses • Line quality • Supply voltage • Hardware interrupt lost • Parameter assignment error • Module fault	50 ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) 200 m 200 m 200 m 2 048 kHz 2 048 kHz Yes Yes Yes; Monitoring of up to 16 freely selectable process values (exceeding or undershooting of value) Yes Yes Yes Yes Yes Yes Yes		
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• present Analog inputs Cycle time (all channels), typ. Cable length • shielded, max. • unshielded, max. • unshielded, max. Analog value generation for the inputs Sampling frequency, max. Interrupts/diagnostics/status information Alarms • Diagnostic alarm • Limit value alarm • Limit value alarm • Hardware interrupt Diagnoses • Line quality • Supply voltage • Hardware interrupt lost • Parameter assignment error • Module fault • Channel not available • Overflow/underflow • Overload current	50 ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) 200 m 200 m 2 048 kHz 2 048 kHz Yes Yes Yes; Monitoring of up to 16 freely selectable process values (exceeding or undershooting of value) Yes Yes Yes Yes Yes Yes Yes Yes Yes		
• present Analog inputs Cycle time (all channels), typ. Cable length • shielded, max. • unshielded, max. • unshielded, max. • unshielded, max. Analog value generation for the inputs Sampling frequency, max. Interrupts/diagnostics/status information Alarms • Diagnostic alarm • Limit value alarm • Limit value alarm • Hardware interrupt Diagnoses • Line quality • Supply voltage • Hardware interrupt lost • Parameter assignment error • Module fault • Channel not available • Overflow/underflow • Overload current Diagnostics indication LED	50 ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) 200 m 200 m 2 048 kHz 2 048 kHz Yes Yes; Monitoring of up to 16 freely selectable process values (exceeding or undershooting of value) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		
 present Analog inputs Cycle time (all channels), typ. Cable length shielded, max. unshielded, max. unshielded, max. analog value generation for the inputs Sampling frequency, max. Interrupts/diagnostics/status information Alarms Diagnostic alarm Limit value alarm Hardware interrupt Diagnoses Line quality Supply voltage Hardware interrupt lost Parameter assignment error Module fault Channel not available Overflow/underflow Overload current Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) 	50 ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) 200 m 200 m 2 0 48 kHz 2 0 48 kHz Yes Yes Yes; Monitoring of up to 16 freely selectable process values (exceeding or undershooting of value) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		
 present Analog inputs Cycle time (all channels), typ. Cable length shielded, max. unshielded, max. Analog value generation for the inputs Sampling frequency, max. Interrupts/diagnostics/status information Alarms Diagnostic alarm Limit value alarm Hardware interrupt Diagnoses Line quality Supply voltage Hardware interrupt lost Parameter assignment error Module fault Channel not available Overflow/underflow Overload current Diagnostics indication LED Channel status display 	50 ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) 200 m 200 m 200 m 2 048 kHz 7 Yes Yes Yes; Monitoring of up to 16 freely selectable process values (exceeding or undershooting of value) 7 Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		
 present Analog inputs Cycle time (all channels), typ. Cable length shielded, max. unshielded, max. unshielded, max. analog value generation for the inputs Sampling frequency, max. Interrupts/diagnostics/status information Alarms Diagnostic alarm Limit value alarm Hardware interrupt Diagnoses Line quality Supply voltage Hardware interrupt lost Parameter assignment error Module fault Channel not available Overflow/underflow Overload current Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics 	50 ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) 200 m 200 m 2 048 kHz 2 048 kHz Yes Yes Yes; Monitoring of up to 16 freely selectable process values (exceeding or undershooting of value) Yes Yes Yes Yes Yes Yes Yes Yes Yes Yes		

- Magguring procedure for voltage maggurement	TDMC		
Measuring procedure for voltage measurement	TRMS		
Measuring procedure for current measurement	TRMS		
Type of measured value acquisition	seamless Sinusoidel or distorted		
Curve shape of voltage	Sinusoidal or distorted		
Buffering of measured variables	Yes		
Parameter length	128 byte		
Bandwidth of measured value acquisition	3.2 kHz; Harmonics: 63 / 50 Hz, 52 / 60 Hz		
Measuring range	1011		
— Frequency measurement, min.	40 Hz		
— Frequency measurement, max.	70 Hz		
Measuring inputs for voltage			
 Measurable line voltage between phase and neutral conductor 	277 V		
 Measurable line voltage between the line conductors 	480 V		
 Measurable line voltage between phase and neutral conductor, min. 	3 V		
 Measurable line voltage between phase and neutral conductor, max. 	300 V		
 Measurable line voltage between the line conductors, min. 	6 V		
 Measurable line voltage between the line conductors, max. 	519 V		
 Internal resistance line conductor and neutral conductor 	1.5 ΜΩ		
- Power consumption per phase	60 mW; 300 V AC		
— Impulse voltage resistance 1,2/50µs	2.5 kV		
 Overvoltage category 	CAT II according to IEC 61010 Part 1		
Measuring inputs for current (Rog. or I/U converter)			
— Measurable current at AC, max.	424 mV		
 — Continuous voltage, maximum permissible 	2 V		
 Rated value, short-time withstand voltage restricted to 1 s 	30 V		
— Input resistance	120 κΩ		
	120 k Ω Yes; 0 20%, referred to the nominal current		
— Input resistance			
Input resistanceZero point suppression			
 Input resistance Zero point suppression Accuracy class according to IEC 61557-12 	Yes; 0 20%, referred to the nominal current		
 Input resistance Zero point suppression Accuracy class according to IEC 61557-12 Measured variable voltage 	Yes; 0 20%, referred to the nominal current 0,2		
 Input resistance Zero point suppression Accuracy class according to IEC 61557-12 Measured variable voltage Measured variable current 	Yes; 0 20%, referred to the nominal current 0,2 0,2		
 Input resistance Zero point suppression Accuracy class according to IEC 61557-12 Measured variable voltage Measured variable current Measured variable apparent power 	Yes; 0 20%, referred to the nominal current 0,2 0,2 0.5		
 Input resistance Zero point suppression Accuracy class according to IEC 61557-12 Measured variable voltage Measured variable current Measured variable apparent power Measured variable active power 	Yes; 0 20%, referred to the nominal current 0,2 0,2 0.5 0.5		
 Input resistance Zero point suppression Accuracy class according to IEC 61557-12 Measured variable voltage Measured variable current Measured variable apparent power Measured variable active power Measured variable reactive power 	Yes; 0 20%, referred to the nominal current 0,2 0,2 0.5 0.5 1		
 Input resistance Zero point suppression Accuracy class according to IEC 61557-12 Measured variable voltage Measured variable current Measured variable apparent power Measured variable active power Measured variable reactive power Measured variable power factor 	Yes; 0 20%, referred to the nominal current 0,2 0,2 0.5 0.5 1 0.5		
 Input resistance Zero point suppression Accuracy class according to IEC 61557-12 Measured variable voltage Measured variable current Measured variable apparent power Measured variable active power Measured variable power factor Measured variable active energy 	Yes; 0 20%, referred to the nominal current 0,2 0,2 0.5 0.5 1 0.5 1 0.5		
 Input resistance Zero point suppression Accuracy class according to IEC 61557-12 Measured variable voltage Measured variable current Measured variable apparent power Measured variable active power Measured variable reactive power Measured variable power factor Measured variable active energy Measured variable reactive energy 	Yes; 0 20%, referred to the nominal current 0,2 0,2 0.5 0.5 1 0.5 1 0.5 1		
 Input resistance Zero point suppression Accuracy class according to IEC 61557-12 Measured variable voltage Measured variable current Measured variable apparent power Measured variable active power Measured variable reactive power Measured variable power factor Measured variable active energy Measured variable reactive energy Measured variable neutral current 	Yes; 0 20%, referred to the nominal current 0,2 0,2 0.5 0.5 1 0.5 0.5 1 0.5 0.5 1 0,2		
 Input resistance Zero point suppression Accuracy class according to IEC 61557-12 Measured variable voltage Measured variable current Measured variable apparent power Measured variable active power Measured variable power factor Measured variable active energy Measured variable reactive energy Measured variable neutral current Measured variable phase angle 	Yes; 0 20%, referred to the nominal current 0,2 0,2 0.5 0.5 1 0.5 1 0.5 1 1 0,2 2 ±0.5 °; not covered by IEC 61557-12		
 Input resistance Zero point suppression Accuracy class according to IEC 61557-12 Measured variable voltage Measured variable current Measured variable apparent power Measured variable active power Measured variable reactive power Measured variable power factor Measured variable active energy Measured variable neutral current Measured variable phase angle Measured variable frequency 	Yes; 0 20%, referred to the nominal current 0,2 0,2 0,5 0.5 1 0.5 0.5 1 0.5 0.5 1 0.5 0.5 1 0.5 0.5 1 0.5 0.5 1 0.5 0.5 1 0.5 0.5 0.5 0.5 0.5 0.5 0.5 0.5		
 Input resistance Zero point suppression Accuracy class according to IEC 61557-12 Measured variable voltage Measured variable current Measured variable apparent power Measured variable active power Measured variable power factor Measured variable active energy Measured variable neutral current Measured variable phase angle Measured variable frequency Measured variable harmonic 	Yes; 0 20%, referred to the nominal current 0,2 0,2 0.5 0.5 1 0.5 1 0.5 1 0,2 ±0.5°; not covered by IEC 61557-12 0.05; only valid for the permissible voltage measuring range 1		
 Input resistance Zero point suppression Accuracy class according to IEC 61557-12 Measured variable voltage Measured variable current Measured variable apparent power Measured variable active power Measured variable power factor Measured variable active energy Measured variable reactive energy Measured variable neutral current Measured variable phase angle Measured variable frequency Measured variable harmonic Measured variable THDU 	Yes; 0 20%, referred to the nominal current 0,2 0,2 0.5 1 0.5 1 0.5 1 0,2 $\pm 0.5^{\circ}$; not covered by IEC 61557-12 0.05; only valid for the permissible voltage measuring range 1 1		
 Input resistance Zero point suppression Accuracy class according to IEC 61557-12 Measured variable voltage Measured variable current Measured variable apparent power Measured variable active power Measured variable power factor Measured variable active energy Measured variable reactive energy Measured variable neutral current Measured variable phase angle Measured variable frequency Measured variable THDU Measured variable THDI 	Yes; 0 20%, referred to the nominal current 0,2 0,2 0.5 1 0.5 1 0.5 1 0,2 $\pm 0.5^{\circ}$; not covered by IEC 61557-12 0.05; only valid for the permissible voltage measuring range 1 1		
 Input resistance Zero point suppression Accuracy class according to IEC 61557-12 Measured variable voltage Measured variable current Measured variable apparent power Measured variable active power Measured variable power factor Measured variable active energy Measured variable neutral current Measured variable neutral current Measured variable phase angle Measured variable frequency Measured variable harmonic Measured variable THDU Accuracy class line analysis acc. to IEC 61000-4-30 	Yes; 0 20%, referred to the nominal current 0,2 0,2 0.5 1 0.5 1 0.5 1 0,2 ±0.5 °; not covered by IEC 61557-12 0.05; only valid for the permissible voltage measuring range 1 1 1		
 Input resistance Zero point suppression Accuracy class according to IEC 61557-12 Measured variable voltage Measured variable current Measured variable apparent power Measured variable active power Measured variable reactive power Measured variable power factor Measured variable active energy Measured variable neutral current Measured variable neutral current Measured variable harmonic Measured variable harmonic Measured variable THDU Measured variable THDI Accuracy class line analysis acc. to IEC 61000-4-30 Measured variable voltage 	Yes; 0 20%, referred to the nominal current 0,2 0,2 0,5 0.5 1 0.5 0.5 1 0,2 ±0.5 °; not covered by IEC 61557-12 0.05; only valid for the permissible voltage measuring range 1 1 Class S		
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solation tested with		Between channels and backplane bus, 24 V supply: Routine test, 1 920 V AC, 2 s; between backplane bus and 24 V supply: Type test, 707 V DC				
mbient conditions						
Ambient temperature during operation						
 horizontal installation, min. 	-30 °C	-30 °C				
 horizontal installation, max. 	60 °C					
 vertical installation, min. 	-30 °C					
 vertical installation, max. 	50 °C					
Altitude during operation relating to sea level						
 Installation altitude above sea level, max. 	3 000 m; Restrictions for installation altitudes > 2 000 m, see manual					
imensions						
Width	20 mm	20 mm				
Height	73 mm					
Depth	58 mm					
Veights						
Weight, approx.	45 g	45 g				
ther						
Data for selecting a voltage transformer						
 Secondary side, max. 	300 V	300 V				
Classifications						
		Version	Classification			
	eClass	14	27-24-26-01			
	eClass	12	27-24-26-01			
	eClass	9.1	27-24-26-01			
	eClass	9	27-24-26-01			
	eClass	8	27-24-26-01			
	eClass	7.1	27-24-26-01			
	eClass	6	27-24-26-01			
	ETIM	9	EC001596			
	ETIM	8	EC001596			
	ETIM	7	EC001596			
	IDEA	4	3562			
		4 15	3562 32-15-17-05			

General Product Approval UK Manufacturer Declara-tion <u>KC</u> CE EG-Konf. Marine / Shipping For use in hazardous locations <u>FM</u> Reg ste LRS RITAS Marine / Shipping Environment CCS (China Classifica-tion Society) NK / Nippon Kaiji Kyokai KR EPD

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