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

Product type designation	Al 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	11, 1N, 11		
Voltage measurement	Yes		
without voltage transformer	Yes		
with voltage transformer	Yes		
Current measurement	Yes; Max. 4		
without current transformer	No		
without current transformer - with current transformer	No		
With Rogowski coil With current-voltage-converter.	Yes		
With current-voltage-converter Energy magazirement	Yes; 333 mV interface Yes		
Energy measurement Fraguency measurement	Yes		
Frequency measurementPower measurement	Yes		
	Yes		
Active power measurement Penetive power measurement	Yes		
Reactive power measurement	Yes		
Power factor measurement Asting factor measurement	Yes		
Active factor measurement Repetito power componenties			
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	OTED TAKE IN IN INCOME		
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	Very Fernandula consists 00 1/00 O. W		
Switching between operating modes in RUN	Yes; For module version 32 I/20 Q, it is possible to dynamically switch betwee 25 user data variants, 23 of which are pre-defined and 2 of which can be defined by the specific user		

System measured value access Acyclic measured range upper firm (DC) Acyclic measured value access Acyclic measured range upper firm (DC) Acyclic measured access a		
Fired measured value sets Froy defined measured value sets Froy defined measured value sets Froy defined measured value secss GIR el Central possible in RUN Frescharten	 Cyclic measured value access 	Yes
Fercity defination in FUN Reparameter protection in FUN Reparameter protection in FUN Reparameter protection passable in PUN Ves Calibration possible in PUN Ves Mounting position Mounting position Mounting position Mounting position Arrivant	 Acyclic measured value access 	Yes
GiR- Configuration in RUN Reparameterization possible in RUN Yes Cathorison possible in RUN Yes Mounting position Supply voltage Rated value (CC)		
Recoverametrization possible in RUN Yes Calibration possible in RUN Yes (Calibration possible in RUN Yes (Calibration possible in RUN Yes (Calibration systemocrating) Mounting position any Systemocrating (CC) 24 kV (CC) 25 kV (CC) 25 kV (CC) (CC) 25 kV (CC) (CC) (CC) (CC) (CC) (CC) (CC) (CC		Yes; For cyclic and acyclic measured value access
Calibration possible in RUN Mounting position Supply vollage Raided value (PC) Permissible range, lower limit (PC) Power loss. P. Power loss, lp. 400 mW; 3x 230 V AC Address space per module Power loss, lp. Address space per module Power loss, lp. Address space per module Power loss, lp. Power loss, lp. Partware configuration Automatic exceeding Permissible range, lower limit (PC) Power loss, lp. Power loss, lp. Power loss, lp. Power loss, lp. Permissible range, lower limit (PC) Power loss, lp. Powe	CiR - Configuration in RUN	
Mounting position any	· · · · · · · · · · · · · · · · · · ·	Yes
Mounting position Storphy voltage Rated value (DC) permisable range, lower limit (DC) permisable range, upper limit (DC) permisable range, upper limit (DC) 28.8 V Input current Current consumption (rated value) Current consumption, max. Power loss. Power		Yes
Rated value (DC)	Installation type/mounting	
Raide value (QC)	Mounting position	any
permissible range, lower limit (OC)	Supply voltage	
permissible range, upper limit (CC) Input current Current consumption (rated value) Current consumption, max. 17 mA Power loss. Vp Address area Addre	Rated value (DC)	24 V
Table Tabl	permissible range, lower limit (DC)	19.2 V
Current consumption (rated value) Current consumption, max. Power loss. YP. Power loss. YP. Address space per module Inputs Inputs Outputs Outputs Inputs Outputs Inputs Outputs Inputs Outputs Insurance configuration Automatic encoding Mechanical coding element Yes Ves Ves Ves Ves Ves Ves Ves	permissible range, upper limit (DC)	28.8 V
Current consumption, max. 17 mA Power loss Power loss, typ. 400 mW; 3x 230 V AC Address space per module - Inputs 256 byte - Outputs 250 byte - Unity Computs 250 byte - White Configuration Automatic encoding Yes - Mechanical coding element Yes - Over of mechanical coding element But yep C Selection of Basetini for connection variants - 2-wire connection But type U0 Time of day Operating hours counter - present Yes - Analog inputs - Oyde time fall channels), typ. Cable length - shielded, max. 200 m - analog value generation for the inputs - Sampling frequency, max 200 m - Limit value alarm Yes - Limit value alarm Yes - Limit value alarm Yes - Hardware interrupt - Uses Supply voltage - Hardware interrupt Syrup S	Input current	
Power loss, typ. Power loss, typ. Address area Address space per module Injust Injust Outputs	Current consumption (rated value)	12.5 mA
Power loss, typ. Address area Address space per module • Inputs • Outputs • Outputs Address space per module • Inputs • Outputs Address space per module • Inputs • Outputs Address space per module • Inputs • Outputs • Outputs • Mechanical coding element • Typ of mechanical coding element • Typ of mechanical coding element • Typ of mechanical coding element • Present • Solicitating fluids Cycle time (all channels), typ. • Solicitating fluids • shelded, max. • unshielded, max. • unshielded, max. • unshielded, max. • analog value generation for the inputs Sampling frequency, max. Interruptoidiagnostica/status information Alarms • Diagnostic alarm • Hardware interrupt • Hardware interrupt • Hardware interrupt tost • Prarameter assignment error • Module fault • Channel not available • Overflow/underflow • Overfload current • Channel diagnostics • Channel of two play voltage (PWR-LED) • Channel status display • Or channel diagnostics • For module diagnostics • For channel diagnostics • For channel diagnostics • For framedel diagnostics • For sincelled alagnostics • For channel diagnostics • For sincelled alagnostics • For channel diagnostics • For framedel diagnostics • For greented Functions	Current consumption, max.	17 mA
Address space per module Injus Outputs Outputs Outputs Outputs Outputs Wes Automatic encoding Mechanical coding element Type of typ	Power loss	
Address space per module Inputs Outputs Outputs Outputs Outputs Automatic encoding Automatic encoding Mechanical coding element Type of mechanical coding element Type of mechanical coding element Outputs O	Power loss, typ.	400 mW; 3x 230 V AC
In inputs Outputs Out	Address area	
Outputs 20 byte Hardware configuration Automatic encoding	Address space per module	
Automatic encoding element	• Inputs	256 byte
Automatic encoding • Mechanical coding element • Type of mechanical coding element • Type U0 Time of day Operating hours counter • present • present • Present • So ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) Cable length • shielded, max. • 200 m • unshielded, max. • 200 m Analog value generation for the inputs Sampling frequency, max. Interrupts/disgnostics/status information Alarms • Diagnostic alarm • Limit value alarm • Yes • Limit value alarm • Hardware interrupt Presenter assignment error • Ness Supply voltage • Line quality • Yes • Line quality • Yes • Line quality • Yes • Diagnoses • Line quality • Yes • Channel not available • Parameter assignment error • Yes • Module fault • Overflowfunderflow • Overload current Diagnostics indication LED • Montoring of the supply voltage (PWR-LED) • Overload current Diagnostics indication LED • Montoring of the supply voltage (PWR-LED) • Channel status display • Fes; green/ted DIAG LED Integrated Functions	 Outputs 	20 byte
Mechanical coding element 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 present Pes Analog inputs Cycle time (all channels), typ. 50 ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) Cable length shielded, max. 200 m Analog value generation for the inputs Sampling frequency, max. 2 048 kHz Interrupts/diagnostics/status information Alarms Diagnostic alarm Diagnostic alarm Hardware interrupt Ves Hardware interrupt Ves Hardware interrupt tost Parameter assignment error Module fault Channel on tavailable Channel not available Channel not available Channel status display For Channel status display For Channel status display For Channel status display For Channel diagnostics For Street For LED For Expression For Channel diagnostics For Street For LED For Expression For Channel diagnostics For Channel Status Diagnostics For Channel For	Hardware configuration	
Type of mechanical coding element Selection of BaseUnit for connection BU type U0 Time of day Operating hours counter • present Analog inputs Cycle time (all channels), typ. So ms, Time for consistent update of all measured and calculated values (cyclic und acyclic data) Cable length • shielded, max. • unshielded, max. 200 m Analog value generation for the inputs Sampling frequency, max. 2 048 kHz 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 • Overflowfunderflow • Overflowfunderflow • Montioning of teapply voltage (PWR-LED) • Channel status display • Fes; green LED • Or channel diagnostics • For channel diagnostics • Fes; green/red DIAG LED Integrated Functions	Automatic encoding	Yes
Selection of BaseUnit for connection variants • 2-wire connection BU type U0 Time of day Operating hours counter • present Anatog inputs Cycle time (all channels), typ. So ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) Cable length • shielded, max. 200 m • unshielded, max. 200 m Anatog value generation for the inputs Sampling frequency, max. 1 0 Jagnostic slatatus information Alarms • Diagnostic slatatus information Alarms • Limit value alarm • Limit value alarm • Line quality • Supply voltage • Hardware interrupt lost • Parameter assignment error • Module fault • Channel not available • Overflow/underflow • Overfload current Possignostics in LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • Fes; green/red DIAG LED Integrated Functions	 Mechanical coding element 	Yes
Ower connection Derating hours counter	 Type of mechanical coding element 	type C
Time of day Operating hours counter • present Analog inputs Cycle time (all channels), typ. 50 ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) Cable length • shielded, max. • unshielded, max. 200 m Analog value generation for the inputs Sampling frequency, max. 2 048 kHz Interrupts/diagnostics/status information Alarms • Diagnostic alarm • Limit value alarm • Hardware interrupt Diagnoses • Line quality • Ses • Hardware interrupt lost • Sampling frequency of value Diagnoses • Line quality • Ses • 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 • Fes; green LED • Cor module diagnostics • For module diagnostics • For module diagnostics • Yes; green/red DIAG LED Integrated Functions	Selection of BaseUnit for connection variants	
operating hours counter	• 2-wire connection	BU type U0
Present Analog inputs Cycle time (all channels), typ. 50 ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) Cable length • shielded, max. • unshielded, max. 200 m Analog value generation for the inputs Sampling frequency, max. • Diagnostic alarm • 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 • Overflow/underflow • Overflow/underflow • Monitoring of the supply voltage (PWR-LED) • Monitoring of the supply voltage (PWR-LED) • Monitoring of the supply voltage (PWR-LED) • Channel status display • Fes; green/red DIAG LED Integrated Functions	Time of day	
Analog inputs Cycle time (all channels), typ. 50 ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) Cable length • shielded, max. • unshielded, max. 200 m Analog value generation for the inputs Sampling frequency, max. 1 Diagnostic alarm • Diagnostic alarm • Limit value alarm • Hardware interrupt • Supply voltage • Line quality • Supply voltage • Hardware interrupt lost • Parameter assignment error • Module fault • Channel not available • Overflow/underflow •	Operating hours counter	
Cycle time (all channels), typ. 50 ms; Time for consistent update of all measured and calculated values (cyclic und acyclic data) Cable length • shielded, max. • unshielded, max. • unshielded, max. 200 m Analog value generation for the inputs Sampling frequency, max. • Diagnostic slatus information Alarms • Diagnostic alarm • Limit value alarm • Yes • Hardware interrupt Diagnoses • Line quality • Supply voltage • Hardware interrupt lost • Parameter assignment error • Module fault • Channel not available • Overflow/underflow • Overflow/underflow • Overflow unders indication LED • Monitoring of the supply voltage (PWR-LED) • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics • for module diagnostics • for module diagnostics Integrated Functions	• present	Yes
Cable length • shielded, max. • unshielded, max. 200 m Analog value generation for the inputs Sampling frequency, max. • Diagnostic slarm • Limit value alarm • Hardware interrupt Diagnoses • Line quality • Supply voltage • Hardware interrupt lost • Parameter assignment error • Module fault • Channel not available • Overfload current Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Monitoring of the supply voltage • Channel status display • Yes • Supply of the supply voltage • Channel status display • Fes • Channel status display • Fes • Channel diagnostics • For module diagnostics • For module diagnostics • Fes; green/red DIAG LED Integrated Functions	Analog inputs	
shielded, max. unshielded, max. 200 m Analog value generation for the inputs Sampling frequency, max. 2 048 kHz Interrupts/diagnostics/status information Alarms Diagnostic alarm Ves Limit value alarm Ves Hardware interrupt Diagnoses Line quality Supply voltage Hardware interrupt lost Supply voltage Hardware interrupt lost Ves Overload current Module fault Channel not available Overflow/underflow Overload current Diagnostics indication LED Monitoring of up to 16 freely selectable process values (exceeding or undershooting of value) Pres Ves Ves Ves Ves Ves Ves Ves Ves Overflow/underflow Ves Overflow/underflow Ves Overload current Pres Diagnostics indication LED Onding of the supply voltage (PWR-LED) Channel status display Ves; green LED Ves; green LED Or channel diagnostics Ves; green/red DIAG LED	Cycle time (all channels), typ.	
unshielded, max. 200 m Analog value generation for the Inputs Sampling frequency, max. 2 048 kHz Interrupts/diagnostics/status information Alarms Diagnostic alarm Yes Limit value alarm Yes Hardware interrupt Yes; Monitoring of up to 16 freely selectable process values (exceeding or undershooting of value) Diagnoses Line quality Yes Supply voltage Yes Hardware interrupt lost Yes Parameter assignment error Yes Module fault Yes Channel not available Yes Overflow/underflow Yes Overflow/underflow Yes Overflow/underflow Yes Overload current Yes Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display Fes; green LED For channel diagnostics Yes; green/red DIAG LED Integrated Functions	Cable length	
Analog value generation for the inputs Sampling frequency, max. Interrupts/diagnostics/status information Alarms Diagnostic alarm Limit value alarm Hardware interrupt Ves; Monitoring of up to 16 freely selectable process values (exceeding or undershooting of value) Diagnoses Line quality Yes Supply voltage Hardware interrupt lost Parameter assignment error Yes Hardware interrupt lost Parameter assignment error Yes Module fault Yes Overflow/underflow Overflow/underflow Overflow/underflow Overfload current Pes Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display Fes; green LED For channel diagnostics Yes; green/red DIAG LED	shielded, max.	200 m
Sampling frequency, max. 2 048 kHz Interrupts/diagnostics/status information Alarms • Diagnostic alarm Yes • Limit value alarm Yes • Hardware interrupt Yes; Monitoring of up to 16 freely selectable process values (exceeding or undershooting of value) Diagnoses • Line quality Yes • Supply voltage Yes • Hardware interrupt lost Yes • Parameter assignment error Yes • Module fault Yes • Overflow/underflow Yes • Overflow/underflow Yes • Overflow/underflow Yes • Overfload current Yes Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) Yes; green LED • for channel diagnostics Yes; green/red DIAG LED Integrated Functions	unshielded, max.	200 m
Interrupts/diagnostics/status information Alarms Diagnostic alarm Limit value alarm Yes Hardware interrupt Diagnoses Line quality Supply voltage Hardware interrupt Yes Hardware interrupt Yes Supply voltage Hardware interrupt Iost Yes Hardware interrupt lost Yes Module fault Yes Channel not available Yes Overflow/underflow Yes Overflow/underflow Yes Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Yes Channel status display Yes; green LED For channel diagnostics Yes; green/red DIAG LED	Analog value generation for the inputs	
Alarms Diagnostic alarm Limit value alarm Alarms Hardware interrupt Piagnoses Line quality Supply voltage Hardware interrupt lost Parameter assignment error Module fault Channel not available Overflow/underflow Overflow/underflow Overflow green Monitoring of up to 16 freely selectable process values (exceeding or undershooting of value) Passing value Yes Yes Yes Hardware interrupt lost Yes Parameter assignment error Yes Module fault Yes Channel not available Yes Overflow/underflow Yes Overflow green Ves Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Yes Yes; green LED Yes; green LED Yes; green/red DIAG LED	Sampling frequency, max.	2 048 kHz
Diagnostic alarm Limit value alarm Hardware interrupt Pes; Monitoring of up to 16 freely selectable process values (exceeding or undershooting of value) Diagnoses Line quality Supply voltage Hardware interrupt lost Parameter assignment error Module fault Channel not available Overflow/underflow Overload current Piagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display Fes; green LED For module diagnostics For module diagnostics For module diagnostics For module diagnostics Integrated Functions	Interrupts/diagnostics/status information	
Limit value alarm Hardware interrupt Yes Yes; Monitoring of up to 16 freely selectable process values (exceeding or undershooting of value) Diagnoses Line quality Yes Supply voltage Hardware interrupt lost Parameter assignment error Module fault Channel not available Overflow/underflow Overload current Pas Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display Fes; green LED For module diagnostics Yes; green/red DIAG LED	Alarms	
Hardware interrupt Yes; Monitoring of up to 16 freely selectable process values (exceeding or undershooting of value) Diagnoses Line quality Supply voltage Hardware interrupt lost Parameter assignment error Module fault Channel not available Channel not available Overflow/underflow Overload current Pes Monitoring of the supply voltage (PWR-LED) Channel status display For channel diagnostics For module diagnostics Yes; green/red DIAG LED Integrated Functions	Diagnostic alarm	Yes
Diagnoses Line quality Supply voltage Hardware interrupt lost Parameter assignment error Module fault Channel not available Overflow/underflow Overload current Piagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display For channel diagnostics For channel diagnostics For module diagnostics Ves Ves Ves Ves Ves Ves Ves Ves Ves Ve	Limit value alarm	Yes
Diagnoses Line quality Supply voltage Hardware interrupt lost Parameter assignment error Module fault Channel not available Overflow/underflow Overload current Piagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display For channel diagnostics For module diagnostics Yes; green/red DIAG LED	Hardware interrupt	
Line quality Supply voltage Hardware interrupt lost Parameter assignment error Module fault Channel not available Overflow/underflow Overload current Piagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display For channel diagnostics For module diagnostics Yes Yes Yes Ves Yes Ves Yes Parameter assignment error Yes Yes Yes Yes Yes Yes Piagnostics indication LED Yes Yes Yes Yes Yes Yes Yes Ye	Diagnoses	undershooting of value)
 Supply voltage Hardware interrupt lost Parameter assignment error Module fault Channel not available Overflow/underflow Overload current Monitoring of the supply voltage (PWR-LED) Channel status display For channel diagnostics For module diagnostics Yes Yes 		Yes
 Hardware interrupt lost Parameter assignment error Module fault Channel not available Overflow/underflow Overload current Passign of the supply voltage (PWR-LED) Channel status display For channel diagnostics For module diagnostics Yes Yes Yes Yes Yes Passign of the supply voltage (PWR-LED) Yes; green LED Yes; green LED Yes; green/red DIAG LED 		Yes
 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 for module diagnostics Yes; green/red DIAG LED Integrated Functions		
Module fault Channel not available Coverflow/underflow Overload current Yes Overload current Yes Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display For channel diagnostics For module diagnostics Yes; green/red DIAG LED Integrated Functions	•	Yes
 Overflow/underflow Overload current Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics Yes; green LED for module diagnostics Yes; green/red DIAG LED Integrated Functions	-	Yes
Overload current Diagnostics indication LED Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics for module diagnostics Yes; green/red DIAG LED Integrated Functions Yes Yes Yes Yes Yes Yes Yes Y	Channel not available	Yes
Diagnostics indication LED • Monitoring of the supply voltage (PWR-LED) • Channel status display • for channel diagnostics • for module diagnostics	Overflow/underflow	Yes
Monitoring of the supply voltage (PWR-LED) Channel status display for channel diagnostics for module diagnostics Yes; green LED Yes; red Fn LED Yes; green/red DIAG LED Integrated Functions	Overload current	Yes
 Channel status display for channel diagnostics for module diagnostics Yes; green LED for module diagnostics Yes; green/red DIAG LED Integrated Functions	Diagnostics indication LED	
 for channel diagnostics for module diagnostics Yes; green/red DIAG LED Integrated Functions 	Monitoring of the supply voltage (PWR-LED)	Yes
 for channel diagnostics for module diagnostics Yes; green/red DIAG LED Integrated Functions 		Yes; green LED
◆ for module diagnostics Yes; green/red DIAG LED Integrated Functions	· ·	
		Yes; green/red DIAG LED
Measuring functions	Integrated Functions	
	Measuring functions	

 Measuring procedure for voltage measurement 	TRMS		
 Measuring procedure for current measurement 	TRMS		
 Type of measured value acquisition 	seamless		
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			
 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 kΩ		
 Zero point suppression 	Yes; 0 20%, referred to the nominal current		
Accuracy class according to IEC 61557-12			
 Measured variable voltage 	0,2		
 Measured variable current 	0,2		
 Measured variable apparent power 	0.5		
 Measured variable active power 	0.5		
 Measured variable reactive power 	1		
 Measured variable power factor 	0.5		
 Measured variable active energy 	0.5		
 Measured variable reactive energy 	1		
 Measured variable neutral current 	0,2		
 Measured variable phase angle 	±0.5 °; not covered by IEC 61557-12		
Measured variable frequency	0.05; only valid for the permissible voltage measuring range		
Measured variable harmonic	1		
— Measured variable THDU	1		
Measured variable THDI	1		
Accuracy class line analysis acc. to IEC 61000-4-30			
Measured variable voltage	Class S		
Measured variable current	Class S		
Measured variable frequency	Class S		
Measured variable voltage interruption	Class S		
Measured variable voltage dip and swell	Class S		
Measured variable harmonic voltage	Class S		
Measured variable harmonic current	Class S		
	Olado O		
tential separation			
otential separation channels	No		
between the channels between the channels and backplane bus	No Yea		
 between the channels and backplane bus 	Yes Yes; Including FE		
 Between the channels and load voltage L+ 			

olation						
Isolation 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. 	-3	-30 °C				
 horizontal installation, max. 	6	0 °C				
 vertical installation, min. 	-3	30 °C				
vertical installation, max.	5	0 °C				
Altitude during operation relating to sea level						
Installation altitude above sea level, max.	3	000 m; Restrictions for install	ation altitudes > 2 000	m, see manual		
mensions	_					
Width		0 mm				
Height		3 mm				
Depth	5	8 mm				
eights		-				
Weight, approx.	4	5 g				
ther						
Data for selecting a voltage transformer		00.1/				
Secondary side, max. Assifications	3	00 V	_	_		
assincations			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		
		UNSPSC	15	32-15-17-05		
oprovals / Certificates						
General Product Approval			EMV	For use in hazard- ous locations		
CE UK	<u>KC</u>	RCM	KC	(UL)		
For use in hazardous locations		Functional Saftey	Environment	Industrial Commu		
IECEx (UL)	CCC-Ex	Type Examination Certificate		PROFINET		

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