

## 3Ph kWhmeter via CT 1-5A 4M MODBUS MID

## ECR300C

## Architecture

Bus system	MODBUS
Number of poles	4 P
Type of pole	3P+N
Fixing mode	DIN rail type O (symmetrical)
Functions	
Precision class	В
Tarif type	T1T2 (230V AC) / T1T8 Modbus
Display features	active power: 2+2 (0.0099.99) active energy: 7+2 (0.01 9999999.99)
Backstop	yes
Suitable only for indoor installation	yes
Adjustable parity parameters (odd , even, none)	yes
Adjustable stop bit (1;2)	yes
Configuration	
calibrated mesure function	yes
Compatibility	
Suitable for	Purchase / supply
Four-quadrants measuring type	yes
Compatible with IR communication interface	yes
Main electrical features	
Rated operational voltage Ue	92/480 V
Type of supply voltage	AC
Frequency	50 Hz
Voltage	
Max operating voltage	300 V
Rated impulse withstand voltage	6 kV
Mesure voltage range P-N	92/276 V
Mesure voltage range Ph-Ph	160/480 V
	100/400 V
Max permanent voltage Ph-N Permanent voltage Ph-Ph	276 V AC



Technical Properties	
Reference voltage P-N	230 V AC
Reference voltage Ph-Ph	400 V AC
Supply voltage P-N	92/276 V AC
Supply voltage Ph-Ph	160/480 V AC
Max permanent voltage Ph-N (1s)	300 V AC
Max permanent voltage Ph-Ph (1s)	800 V AC
Electric current	
Minimum operating current	0,001 A
Operating current	0,001/6 A
Rated current	5 A
Reference current	1 A
Max. measurement circuit current	6 A
Max permanent current	6 A
Max temporary current	120 A (0.5 ms)
Frequency	
Measurement range of frequency	45/65 Hz
Reference frequency	50 Hz
Power	
Power consumed	2 VA
Total power loss under IN	0,6 W
Network baud rate	1200/38400 bit/s
Electrical specifications	
Type of pulse generator	optical
Precision class active energy (accord. to EN 50470-3)	
Precision class active power (accord. to IEC 62053-21 and IEC 61557-12)	1
Precision class reactive energy (accord. to IEC	2
62053-23)	
Precision class reactive power (accord. to IEC 62053-21)	2
Resistance	
Internal termination resistor Modbus (120?)	yes
Measurement	
Frequency measuring range	45 to 65 Hz
Type of measuring instrument	electronical
Principle of measurement	Measurement transformer
Measurement range of the current (Min, Max)	0,01/6 A
Power supply	
Supply voltage	
	400 V ± 20%
Dimensions	400 V ± 20%
	400 V ± 20%
Depth of installed product	
Depth of installed product Height of installed product	60 mm 90 mm
Depth of installed product	60 mm



Technical Properties	
Measured quantities	V, A, kWh, kvarh, PF, Hz, kW, kvar
Installation, mounting	
Tightening torque	0.5Nm
Mounting type	din-Rail
Connection	
Cross section of digital input	0,8/2,5 mm <sup>2</sup>
Settings	
Transformer interpretation adjustable	1
adjustable address communication interface	1/247
Transmission ratio selectable	yes
Equipment	
Type of display	retro illuminated display
Tariff model of kilowatt-hour meter	Externa
Type of counter	4 wires counter
Optical metrological LED	10000 lmp/kWh
Four-quadrants measuring type	yes
Use	
Transformation Ratio	50;5
Standards	
Standard text	EN 50470-1 / 3, IEC 62053-21 / 23, IEC 61557-12
Certified product	MID (Measuring Instruments
•	Directive)
European directive WEEE	concerned
Product categories described in the W3E directive 2012/19/EU	Category 5
Safety	
Protection index IP	IP20
Protection class	isol.class II
Class of Insulation	TBTS
Use conditions	
Operating temperature	-25 55 °C
Degree of pollution according to IEC 60664 / IEC 60947-2	2
Altitude	2000 m
Storage/transport temperature	-25 70 °C