

ZMY/ZFY405CW1, ZMY/ZFY410CW1

E570 Series 2 2G/4G Transformer Connected 3-Phase Electricity Meter

Technical Data



E570 Series 2 is a smart CT/VT 4- and 3-wire transformer connected electricity meter for the new energy markets. It offers reliable performance and versatile functionality. E570 has built-in support for multi-energy and can be optionally equipped with exchangeable communication modules, such as RS-485, 2G GSM/GPRS or 2G/4G LTE.

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Revision history

Version	Date	Comments
a.00	18.05.2017	1 st draft.
a.01	16.08.2017	2 nd draft.
a.02	05.09.2017	3 rd draft after first R&D review.
a.03	06.02.2018	4 th draft containing type designation comments and remarks.
a.04	08.02.2018	5 th draft with final corrections made by HW engineering after complete testing.
а	14.02.2018	Final version completed for 1 st release with latest drawings.
b	18.06.2018	Product name updated.
с	20.09.2018	Updated cover photograph.

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Transformer connected E570 Series 2 electricity meter offers a flexible solution for communication between the meter and the metering system (HES, Head-End System) using exchangeable E57C communication modules, such as RS-485, 2G GPRS or 2G/4G LTE.

E570 Series 2 2G/4G Transformer Connected 3-Phase Electricity Meter (ZxY400CW1) - Technical Data

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General	Voltage	
	Nominal voltage Un ZMY	
Functions	3 x 58/100	V to 277/480 VAC
Measurement:		
 Combined bi-directional measurement 	Nominal voltage Un ZFY	
 3-phase/4-wire and 3-phase/3-wire 	3	3 x 100 to 240VAC
Communication:		
- Two-way communication to the AMM system with	Extended operating voltage range	е
2G/GPRS or 2G/4G LTE		80% – 115% U _n
 IDIS-compliant except data type 64 bit 		
Serial interface:	Frequency	
 Integrated RS-485 with twin jack RJ12 	Nominal frequency fn	50 Hz or 60 Hz
Version with wired M-Bus interface	Tolerance	± 5%
- Wired M-Bus master supports up to 4 multi-energy		
devices (gas, water, district heating)	IEC-Specific Data	
- Also used as a CII customer interface		
Inputs and outputs:	Current	
- Up to 5 S0 outputs	Nominal current In	
- 1 control input		1 A 5 A
- 1 mechanical on-off latching 10 A load control		174,074
switch	Maximum current Imax	
 2 solid-state 100 mA auxiliary control switches 	Metrological	200% ե
- Optical port for local reading, configuration and	metrological	2 A 10 A
parameterisation	Thermal	27, 107, 12 A
Control buttons:	monnai	1270
- 1 scroll button for the display	Short-circuit current	
- 1 sealable reset button		0.5 s with 30 x I _{max}
LCD display:		
 9 digits for displaying register values 	Measurement Accuracy	
- Phase, energy direction, no-load mode, alarm,		
units of measure and supply control switch state	$\Delta a tive energy to IEC 62052.22$	
- Multi eperavunits	Active energy, to IEC 02053-22	CI255 0.5 5
External supply control switch control:	ZFT 10 IEC 62053-23	
- Control for the disconnection of power	ZIMP 10 IEC 02033-24	Class I S
- 3 operating modes	7,110	
manually with a push-button or via local	$\Delta x + 4 + 10$	olooo 1
communication interfaces	Active energy, to IEC 02053-21	CI455 1
Interoperability and certification	ZEV to $IEC 62053 23$	class 2
- IDIS 2 DLM, DLMS and IEC readout	ZET 10 IEC 62053-23	
- MID certification	ZIVIT 10 IEC 02033-24	U1055 Z
 IEC 62052-31 safety standard compliant 		
 RED compliant (2G and 2G/4G) 		
- RoHS compliant		

Measurement	Behaviou
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Starting current ZxY405	
According to IEC Typical	0.1% In 0.07% In
Starting current ZxY410	

According to IEC 0.2% In Typical 0.14% In The start-up of the meter is controlled by the starting power and not by the starting current.

MID-Specific Data

Rated current In1.0 A, 5.0 AMinimum current Imin0.01 A, 0.05 ATransitional current Ir0.05 A, 0.25 AMaximum current Imax2.0 A, 10.0 AMeasurement AccuracyZxY400CP1to EN 50470-3 classes B and CMeasurement BehaviourStarting current IstClass B: Ist0.002 A, 0.01 AClass B: Ist0.002 A, 0.01 A, 0.005 AGeneral DataOperating BehaviourVoltage failure (power-down)Voltage failure (power-down)Voltage restoration (power-up)Function stand-by 3 phasesFunction stand-by 1 phase< 5 sDetection of energy direction / phase voltageVoltage> 47 VPower Consumption in voltage circuit per phase Active power (typical)0.6 WApparent power (typical)1 VA	Current (for Classes B a	and C)
1.0 A, 5.0 A Minimum current I _{min} $0.01 A, 0.05 A$ Transitional current Itr $0.05 A, 0.25 A$ Maximum current I _{max} $2.0 A, 10.0 A$ Measurement Accuracy ZxY400CP1 to EN 50470-3 classes B and C Measurement Behaviour Starting current Ist Class B: Ist $0.002 A, 0.01 A$ Class C: Ist $0.001 A, 0.005 A$ General Data Operating Behaviour Voltage failure (power-down) Voltage restoration (power-up) Function stand-by 3 phases Function stand-by 1 phase $< 5 s$ Detection of energy direction / phase voltage < 3 s Voltage $< 47 V$ Power Consumption Power consumption in voltage circuit per phase Active power (typical) $0.125 VA$	Rated current In	
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Function stand-by 1 phase< 5 s	Voltage failure (power-down Voltage Bridging time Voltage restoration (power-u	u) < 46V 0.5 s
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Apparent power at 1 A (typical)

0.005 VA

Environmental Influences

Temperature range	to IEC 62052-11
Operation meter	–40 °C to +70 °C
Operation LCD display	–20 °C to +70 °C
According to IEC62052-31	–25 °C to +55 °C
Battery	–30 °C to +60 °C
Storage	–40 °C to +85 °C
Temperature coefficient	
Range	–40 °C to +70 °C
Average value (typical)	\pm 0.01% per K
At $\cos \omega = 1$ (from 0.05 lb to	I _{max}) ± 0.02% per K
At $\cos \varphi = 0.5$ (from 0.1 lb to la	+ 0.03% per K
Ingress protection acc. to IEC	60529
	IP54
Electromagnetic Compati	bility
Electrostatic discharges accor	ding to IEC 61000-4-2
Contact discharge	8 kV
Air discharge	15 kV
7 in discharge	
Immunity conducted disturban	ices 2 to 150 kHz
According to CENELEC	TR 50579
	1100010
Electromagnetic RE fields	acc. to IEC 61000-4-3
80 MHz to 2 GHz	10 and 30 V/m
Radio interference suppressio	n
according to IEC/CISPR 22	
	class B
Fast transient burst test	acc. to IEC 61000-4-4
Current and voltage circuits un	nder load
according to IEC 62053-21	4 kV
Auxiliary circuits > 40 V	2 kV
-	
Surge immunity a	acc. to IEC 61000-4-5
Current and voltage circuits	4 kV
Auxiliary circuits > 40 V	1 kV
Insulation Strength	
Insulation strength	
	t 50 Hz during 1 min
4 KV 6	at 50 Hz during T min.
Impulse voltage 1.2/50 μS	
Auxiliary circuits to IEC 62052	
Current and voltage circuits to	1EC 62052-11 8 KV
According to SP 1618	12 kV

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Protective class according to	IEC 62052-11
	II 🗖
Calendar Clock	
Normal operation	
Accuracy (at +23 °C)	<5 ppm (0.5 s/dav)
	- pp ())
Back-up time (power reserve	e)
With supercapacitor	14 days
With battery CR2477 (opt.)	exp.10 years life time
Display	
Characteristics	
Type LCD liquid crysta	al display with backlight
Digit size / number of value f	ield 8 mm / up to 9
Digit size / number of index f	field 6 mm / up to 6
Inputs and Outputs	
Digital input	S0
According to IEC 62053-31	class B
Control input	
Control voltage Us	70 to 250 VAC
Input current < 1	mA ohmic at 230 VAC
2 outputs colid state	auxiliary control switch
2 outputs solid-state	
Maximum switching current	0 10 200 VAC/DC
Maximum switching current	100 IIIA
1 electromechanical output	
on-off latcl	ning load control switch
Voltage range	0 to 250 VAC
Max. resistive load	10 A
Max. operations with $\cos \varphi \sim$	1 100,000 op.
	•
Up to 5 digital pulse outputs	S0 output
Standard	IEC 62053-31
Supply voltage (nominal/max	k. value) 24 / 27 V
Current on-state m	in. 10 mA, max. 27 mA
	off-state max. 2 mA
Test output active (co	onfigurable as reactive)
Туре	red LED
Pulse length sele	ectable from 2 to 40 ms
Meter constant	selectable
Communication Interfac	es
Ontical interface	
Type	hi-directional interface

Max. transmission speed 19,200 bps Protocol according to DLMS or opt. IEC 62056-21

2G interface (GPRS)	E57C G10.L
Quad-band GSM	850/900/1800/1900 MHz
GPRS	Class 10 multi-slot
GPRS	Class B mobile station
CSD	Up to 14.4 kbit/s
RED compliant	

2G/4G LTE	E57C L10.L	
2G bands	900/1800 MHz	
4G bands	B1 (2100 MHz), B3 (1800 MHz),	
B7 (2600 MHz), B8 (900 MHz), B20 (800 MHz)		
4G LTE FDD Category 1 up to 10Mbps		
with GPRS fall-back		
RED compliant		

2G/4G protocols

TCP/IPv4 protocol

DLMS communication protocol supporting:

- COSEM transport layers for IPv4 networks 62056-47 (Wrapper) used for IP connections (GPRS)
- Data Link Layer using HDLC Protocol 62056-47 used for analogue connections (CSD)
- COSEM application layer 62056-53
- COSEM application model 62056-61 (OBIS) and 62056-62 (interface classes)

Antenna	for all bands
Antenna connector	SMA
Wired M-Bus interface	EN 13757-2: 2005
"Delighte Delight" an "Delighte	Multipaint" hus avatam

"Point-to-Point" or "Point-to-Multipoint" bus system		
Max. transmission rate	2,400 bps	
Max. unit loads (1 unit load = 1.5 mA) 16		
Max. wiring length ≤ 50 n		
Transmission from master:		
MARK: $H = SPACE \text{ voltage } + \ge 10$	V but < 42 V	
SPACE:	L ≥ 12 V	
Transmission from slave:		
MARK: L = 0 m	nA to 1.5 mA	
SPACE: H = (11 mA to 20 mA + MA	ARK current)	

to ISO-8482
ial, symmetrical, half-duplex
CMR -7 to +12 VDC
difference voltage < -0.2 V
difference voltage > 0.2 V
38,400 bps
31
IEC 62056-21 and DLMS

Material

Case antistatic polycarbonate plastic Case material is antistatic glass-filled polycarbonate. Flame retardant and self-extinguishing class V0 according to IEC 60695-11-10.

High temperature deflection, UV stabilised and can withstand applicable environmental tests defined in IEC 60068.

Connections

Phase connect	ions		
Material of terminal		brass	
Туре	cage type	terminal with one screw	
Diameter		5.2 x 5.2 mm	
Conductor cross-section		2.5 to 20.0 mm ²	
Stranded wires must be fitted with ferrules.			
Screw head		Pozidrive combi no. 2	
Screw dimension	on	M4 x 15	
Tightening torg	ue	1.5 to 2 Nm	

RS-485 interface Pin assignment twin jack RJ12 type



1. 2. 3. 4.	C (Common Ground) Data A Data B Data B
5.	Data A
6.	C (Common Ground)

Weight and Dimensions

Weight

approx. 1.2 kg

Width/Height/Depth

174/269/70 mm



Terminal cover image used contains CII socket. Plain version available.



7/10

	Examples ZMY 4 05 C W1 U0 L40 .11.1020 S2
	ZMY 4 10 C W1 U0 L30 .00.0020 S2
Network ty	pe
ZMY ZFY	3-phase, 4-wire (M-connected) 3-phase, 3-wire (F-connected)
Connection	type
4	Transformer connected (3-phase)
Accuracy cl	ass
10 05	MID class B; IEC class 1, reactive class 2 MID class C; IEC class 0.5 S, reactive class 1 S
Measured	quantities
с	Active and reactive energy (4-quadrants)
System cor	nmunication
W1	Exchangeable WAN, 2G/4G or interface module
User interfa	ace
U0	Optical interface
Built-in loca	al communication options
L30	RS-485 only
L40	Wired M-Bus and RS-485
Input/outp	out options
With L30 .00.0020 .01.1025	2 solid-state auxiliary control switches (100 mA) 1 control input, 1 latching load control switch (10 A), 2 solid-state auxiliary control switches
With L40	
.11.1020	1 SO input, 1 control input, 1 latching load control switch (10 A), 2 solid-state auxiliary control switches (100 mA)
.01.1021	1 control input, 1 latching load control switch (10 A), 2 solid-state auxiliary control switches (100 mA), 1 SO output
Hardware	eries
S 2	Series 2 (second series)
Available	modules
Var 1	A 3 0.0 RS-485 module interface
Var 2	G10.L 2G with last gasp alarming
Var 3	L10.L 2G/4G with last gasp alarming

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