



Customer Interface Unit

INTRODUCTION

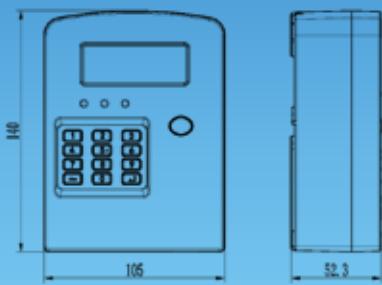
CU100 is a user-friendly Customer Interface Unit (CIU) applicable to conventional and smart prepayment metering while its partner meter can be split type without any credit inserting interface or non-split type with keypad or even card slot. CIU is to facilitate the credit management and energy consumption monitoring at the end-user's premises as well as enhancing revenue protection by minimizing accessibility of end-user customer to the meter that will reduce tampers. CU100 can communicate with the prepaid meter through wired (PLC/M-Bus) or Wireless (RF-LoRa) communication channels, offering a reliable and free interface to end-user customer who wants to apply for different things like credit charging, readout historical data of tokens, monitoring real energy and demand values, activating user-friendly and emergency modes and many more. CU100 also equips with a large LCD, series of big keypad buttons, an adjustable buzzer and the backlight for both LCD and keypad, all to offer a convenient operating mode. To power-up, it needs 3 standard AA batteries in case communication between meter and CU100 is PLC or RF-LoRa while using M-Bus communication doesn't need those batteries.



MAIN FUNCTIONS

 Credit Charging	 Historical Data	 Real Time Clock	 Energy Rate Monitoring	 IP51
 Configurable LEDs	 Message Displaying	 Energy Monitoring	 Multiple Communications	 Buzzer
 AA Type Battery	 Hermetically or Ultrasonic Sealing	 LCD & Keypad Buttons Backlight		

DRAWING & WIRING



LCD



SPECIFICATION

PARAMETERS		CU100
Electrical	Nominal Voltage	220V, 230V, 240V±15%
	Frequency	50/60Hz±1%
	Power Consumption (V, I)	Active:1W, Apparent: 7VA
	Communication to Meter	RF-LoRa/PLC/M-Bus
	Battery	3xAA Size Zinc Battery (just for PLC & RF-LoRa)
	RTC	≤0.5s/d
	LCD	7 Segment , 20 Digits (Configurable by Integer & Decimal)
Environmental	Temperature Range (Operation & Storage)	Operation (-25°C to +70°C) , Storage (-40°C to +85°C)
	Humidity	≤95%
Mechanical	Installation	Wall-Mounted
	IP Degree	IP51
	Meter Case	PC+10%GF
	Dimension , LWH (mm)	140x105x52.3
	Weight (kg)	~0.2
Functional	LED	3 LEDs (Communication Status, Credit, Alarm)
	Keypad	12 Buttons (0 to 9 , Enter, Back)
	Backlight	Yes (LCD & Keypad)

SHORT KEYS

Following is list of the most useful short codes requesting by end-user customer (for more please refer to CIU User Manual):

Short Code	Function	Short Code	Function
003	Accumulated Consumed Energy	200	Value of Last Entered Token
005	Tariff Index	201	ID of Last Entered Token
007	Maximum Power Limit	908	CIU Battery (X.XXX format, when it smaller than 4, battery needs to be changed)
009	Instantaneous Power	804	Average Daily Energy Consumption
019	Available Credit	805	Average Daily Cost of Energy Consumption
020	Total Consumed Energy (currency-based)	650	Voltage Phase A
052	Current Price	651	Voltage Phase B
053	Current Tariff price	652	Voltage Phase C
055	Cumulative Charged Value	653	Current Phase A
103	Credit Alarm Threshold	654	Current Phase B
141	Data & time	655	Current Phase C
160	Friendly Mode	673	Frequency

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