MICROSTAR®

Technology Leader of Smart Metering

le Phase Smart Mete

Credi C2000

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Alarm 230 Volts 5(801Amps 500mp300h) IEC 62052 - 11 50 Hz Year 2014 IEC 62553 - 21 Class 1

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dims



MICROSTAR

C2000

Direct Connected Single-Phase Smart Electricity Meter

Class 1.0, Class 0.5s





FEATURES

- Accurate measurement of kWh & kvarh
- Maximum demand registration of kW & kvar
- Instrumentation of voltage, current, power & power factor
- Time of Use (TOU) control with 4 tariffs and flexible programming
- Event logs with up-to 200 power quality or tampering events
- High quality 8-digit LCD display with large characters & backlight
- Internal real-time clock (RTC) with super capacitor and backup battery
- Supports DLMS, IEC 62056-21, or MODBUS communication protocols
- Encapsulation type meter casing design for reliability and security
- Active energy display on LCD without power supply

OPTIONS

- AMR ready w/ hot-pluggable internal GPRS, Wi-Fi, or Ethernet module
- Local communication options: Optical port, RS485, RS232, PLC, RF
- Configurable load profile with recording of up-to 180 days at 30' interval
- Replaceable backup battery for meter reading without power
- STS certified prepayment feature with up-to 100A internal contactor
- Remote, scheduled, or event triggered load control
- Energy dispenser with configurable daily consumption limit
- Dural element measurement for neutral removal or bypass detection

APPLICATION

- TOU control and multi-tariff support

- Supports DLMS protocol (Certified)

- ing and isolate signal terminals

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Technical Specifications C2000

ELECTRICAL

Connection Type	Dire
Measurement Modes	1-ph
Accuracy Class	Clas
Rated Voltage	110
Rated Current	5 (6
Starting Current	< 0.
Rated Frequency	50 c
Power Consumption	- 11

ect connected (Whole current) hase 2-wire or 2-phase 3-wire ss 1.0, Class 0.5s V, 220V, 230V, or 240V 60) A, 5 (80) A, 10 (100) A .1% I_n or 60 Hz

Ρ Voltage Circuit Current Circuit

< 1W, < 2.5VA per Phase < 0.1VA

MECHANICAL

Dimensions	209 mm x 137 mm x 83mm
Weight	1 kg (approximately)
Insulation	Protective Class II
Ingress Protection	IP54
Case / Terminal Cover	High Quality Polycarbonate
Terminal Block	Flame-Retardant Polycarbonate

ENVIRONMENT

Working Temp.	-25°C to +70°C
Storage Temp.	-40°C to +85°C
Humidity	0 - 95% non condensing
Fast Transient Burst	4kV
Static Discharge	8kV Contact / 15kV Air Discharge
Impulse Voltage	6kV, 1.2/50µs pulse
AC Voltage	4kV, 50Hz

REAL-TIME CLOCK

Accuracy	< 0.5 seconds / 24 hours
Backup Battery	Lithium Battery (20 years life)
Backup Time	≥ 15 years without power
Clock Synchronization	Local or remote via AMR

DISPLAY

LCD Display	2 line, 8-digit LCD display
Display Mode	Automatic, Push Button
Display Item	100 configurable display items
Display at Power Off	Active energy or net energy

COMMUNICATION OPTIONS

Local Communication	Optical/Infrared, RS232, RS485, PLC, RF (433/866MHz)
Remote Communication	GPRS/GSM, Wi-Fi, Ethernet
Communication Protocol	DLMS/COSEM, IEC62056-21, MODBUS

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MEASUREMENT & INS	STRUMENTATION
Energy	Import/export kWh, kvarh; Absolute or net metering
Maximum Demand	Import/export kW, kvar
Automatic Billing Data Recording / MD Reset	Date & Time Programmable
Instantaneous Values	Current, Voltage, Power, Average Demand, Power factor, & Frequency
LOAD PROFILE	
Load Profile	Option of configurable load profile
Channels	8 configurable channels
Available Data	All energy, demand, & instrumenta- tion data (see above for details)
Integration Period	15 to 60 minutes configurable
Memory Space	90 days or 180 days with 30' interval
Data Retention	25 Years
EVENT REGISTRATIO	N
Event Log	Configurable event log
Trigger Events	Voltage loss, voltage over, voltage under, current loss, current over, low power factor, current reverse, over- load, terminal cover open, meter top cover open, power on & power off
Program Record	Last 100 program records
TIME OF USE (TOU) C	ONTROL
Number of Tariffs	4 tariffs
Daily Profiles	4 daily profiles, 10 tariff slots
Week Tables/Seasons	4 week tables, 4 seasons
Holidays	100 special days (up-to 200)
INPUT & OUTPUT	
Test Pulse Output	400 - 4000 imp/kWh
LED Pulse Output	400 - 4000 imp/kWh
PREPAYMENT & LOA	D CONTROL
Prepayment Feature	STS certified via token or smart card
User-Friendly Prepay- ment Modes	Friendly hours/days, emergency credit and vital necessity power
Load Control	Scheduled / on-demand or event triggered load control
Internal Contactor	100A internal contactor



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