Data Concentrator Unit

M62G

PRODUCT INFORMATION

M62G Data Concentrator Unit (DCU) helps utility operation more economic, efficient and sustainable.

KEY FEATURES

Communication

- Full DLMS/COSEM & IEC 62056-9-1 compliance
- Independent communication interfaces:
  - ➢ Downlink interfaces: Wi-Sun RF Mesh, G3 PLC/BPLC/BPSK, RF, RS485
  - ➢ Uplink interfaces: GPRS/3G/4G/Ethernet/Optical Fiber
  - ➢ Local Maintenance Interfaces: Ethernet, Bluetooth
- Two work modes: gateway and scheduled reading task
- WEB service integration to MDC based on IEC 62056-9-1
- Maintain & obtain topology of the communication nodes

Flexibility

- Plug and Play module: G3/RF, GPRS/3G/4G
- Firmware with modular design, flexible upgrading and extending protocol or device
- Simultaneously meter reading via different communication channels such as RS485 and PLC/RF
- Configurable data objects and scheduled meter reading which is based on CRON

Robustness

- Sophisticated reading algorithm such as reading with priority, restart from failure reading
- Communication quality analysis to locate failure nodes
- Up to 2047 meters management
- Self-diagnosis and event records
- The MTBF≥100,000 hours

Security

- Communication encryption algorithm supports AES128, AES256, ECC192
- WEB access based on HTTPS
- Storage data security supports AES128, AES256

Maintainability

- Troubleshooting & diagnostics log which can be obtained by command or U-disk
- Increment upgrading feature guarantee success rate and minimum network data flow
- Meter reading & control, review and export data through WEB browser
- Built-in Bluetooth for local meter reading & maintenance

Interaction

- Supports G3-PLC/BPLC, international standards
- Uplink system integration through WEB service based on IEC 62056-9-1
- Downlink device integration based on DLMS/COSEM, IDIS2 international standards, Wi-Sun RF Mesh

M62G

Data Concentrator Unit

TECHNICAL SPECIFICATIONS

Storage Capacity

- 256MB
- Up to 24 monthly billing data
- Up to 40,000 load profiles
- Up to 40,000 Alarms & Events

Memory

- 64MB

Nominal Voltage

- 3 x 240/400V

Voltage Range

- 0.5Un~1.2Un

Frequency

- 50Hz / 60Hz

Static Power Consumption

- 5W

Communication Standard

- IEC 62056-5-3
- IEC 62056-6-1
- IEC 62056-6-2
- IEC 62056-9-1
- IEC 61968

Communication Interface

- Uplink:
  - GPRS/3G/4G/Ethernet
- Downlink:
  - Wi-Sun RF Mesh, G3 PLC/BPSK/BPLC
- Local:
  - Bluetooth/Ethernet

Ingress Protection

- IP54 Indoor

Real-Time Clock Accuracy

- <3 min/Year or <0.5 s/Day

Environment

- Temperature Range:
  - -40°C ~ +70°C
- Humidity:
  - Up to 95%

Other Standard

- IEC 62052-21 clause 7
- IEC 62052-11

Physical Parameters

- Dimension: 230.8mm x 170mm x 83.8mm
- Mounting Type: Projection