# MC500

## TAILORED FOR GLOBAL AMI MARKETS.


**The MC500 is a smart concentrator for the high demands of the global AMI markets. It is based on a modular design concept for hardware and firmware structure. In line of its basic functions, the concentrator collects data from meters, stores meter data and delivers data to the head-end system.**

iskraemeco
BY ELSEWEDY ELECTRIC

The MC500 Concentrator is a communication device based on the LINUX operating system and consists of a GPRS module, an Ethernet adapter and a G3-PLC module.

MC500 uses a 32-bit RISC embedded software and hardware platform, professional real-time LINUX embedded OS and plug-and-play communication module.

What we offer goes beyond meter reading data collection. We are committed to providing accuracy, efficiency, and a gateway or storage with instantaneous sendings to the system.

The Iskraemeco data concentrator complies with the Applicable and EMS standards to meet various market demands.

| | | MC500 |
|---|---|---|
| **TECHNICAL SPECIFICATIONS - ELECTRICAL CHARACTERISTICS** | | |
| **Connection wiring** | | 3 - Phase |
| **Nominal voltage** | | 3 x 220V/380V |
| **Voltage range** | | 70% ~ 130% Un |
| **Frequency** | | 50Hz ± 5% |
| **Ac voltage** | | 4 kV |
| **Fast instantaneous pulse group** | | 4 kV |
| **Immunity to Impulse voltage IEC 62052 11** | | 6 kV |
| **Electrostatic discharge IEC61000 4 2** | | Contact discharge, 8kV, 10 cycles;<br>Air discharge, 15kV, 10 cycles |
| **Relative humidity** | | 95%, No coagulate frost |
| **Frequency range** | | 50Hz±5%, 60Hz±5% |
| **Fast transient burst main circuits** | | 4 kV |
| **Electric rapid transient pulse group** | | 4kV |
| **TECHNICAL SPECIFICATIONS - PHYSICAL CHARACTERISTICS** | | |
| **Temperature ranges** | **Specified operation** | 25 °C to + 5 5 °C |
| | **Limit operation** | 40 °C to + 70 °C |
| | **Storage and transport** | 45 °C to + 85 °C |
| **Relative humidity** | | ≤95%, non-condensing |
| **Ingress protection** | | IP51 |
| **Insulation protection** | | Class II |
| **Clock accuracy** | | ≤ 0.5 sec/day |
| **MTBF** | | ≥ 50,000 hours |
| **Meter lifetime** | | ≥ 15 years |
| **Battery lifetime** | | 10 years |
| **Dimensions W x H x D mm** | | 290 * 180 * 95 |
| **Weight** | | 2 kg |
| **TECHNICAL SPECIFICATIONS - TECHNICAL CHARACTERISTICS** | | |
| **CPU Processors** | | Atmel ARM9 |
| **SDRAM** | | 32M |
| **Flash** | | 1Gb |
| **Operating system** | | Linux |
| **Internet Protocol** | | IPV4 |

**ISKRAEMECO GROUP**


www.iskraemeco.com

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