



Holosys HoloSphere

Holosys **HoloSphere** is a compact Wireless M-Bus gateway device suitable for implementation and integration in various Automatic Meter Reading scenarios. Battery powered version of the device provides easy installation in the field. Transmitted meter readout data is received by the embedded Wireless M-Bus receiver. Meter readout data can be sent periodically to a central server location or transferred from a central server location on request.



Wireless M-Bus in accordance with EN 13757- 4




Receiving readouts from up to 4.000 meters



Suitable for AMR fixed networks



Battery and network powered versions

- Radio telegram AES128-bit decryption feature by user setting the telegram decryption key
 - Meter readout data processing and storage into non-volatile memory
 - Periodical data readout with adjustable time period
 - Readout data recording into embedded non-volatile NAND Flash memory (up to 4GB with at least one year storage time)
 - Data storage in XML file format for easy data processing and integration with various information systems
 - Meter readout data transfer to one or multiple FTP servers
 - Standard Micro SIM card holder and eSIM embedded IC
 - GPRS/GSM or WIFI parameters setup
 - Periodical GPRS or WIFI connection checking/restoring
 - Public and private IP network address
 - Remote device commands execution (Reset)
 - Embedded battery powered Real-Time Clock (RTC)
 - 15 minutes minimum readout data transfer period resolution
 - Remote firmware upgrade
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KEY FEATURES

TECHNICAL CHARACTERISTICS

System specifications	
Modem	GSM standard SMS, Fax, GPRS Class12, support for PBCCH support for 850, 900, 1800, 1900 MHz GSM band
Supported network services and protocols	IP v4, TCP, UDP, DNS (client), PING, POP3 (client), SMTP (client), FTP (server, client), HTTP (server)
FLASH RAM module	Embedded NAND Flash up to 4GB or micro SD card (up to 4 GB)
Processor module (MPU)	Remote firmware update and remote software installation are available.
Wireless M-Bus radio interface	
Frequency	868 or 433 MHz
Modes	C1, T1
Standard	EN 13757-4:2018
Radio antenna	868 MHz Built-in On-Board antennas Optional external antenna 868 MHz and 433 MHz, 50 Ω, vertical polarization, omnidirectional, 10 dBi min gain, IP67 rating
General data	
Power supply	AC: 100-240V AC, 50/60Hz, 0.35A; P=15W max (+5V DC, 3A) Battery: Li-SOCI2 battery packs, 3.6V DC Five (5) years battery supply autonomy depending on device configuration
Standards	CE, EN 60529:1991 + A2:2013/AC:2019-02
Housing	Material: Thermoplastic Dimensions (w x h x l): 200 × 75 × 120 mm Colour: Light gray Mounting: Bolts on the mountable surface Connector: 2,5mm2 max
IP rating	IP67
Operating temperature range	-20°C .. +50°C
Humidity	10% ... 70% relative humidity
Weight	1.4 kg