

Mi.Hub Data Collector

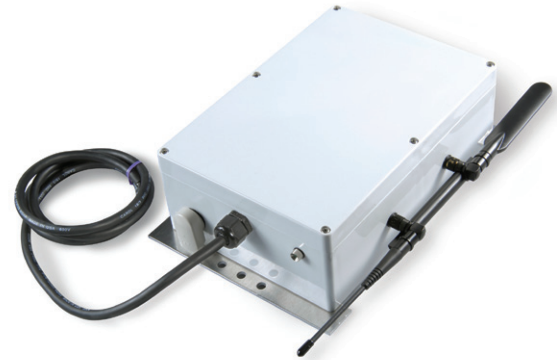
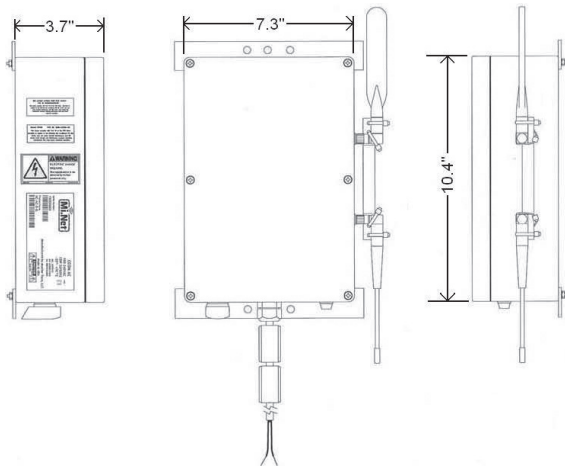
Features

OVERVIEW: The Mueller Systems Mi.Hub data collector component of the Mi.Net™ system enables true, two-way radio frequency communication between water meters equipped with Translator® encoder registers, Mi.Node W meter interface modules, Mi.Node G gas modules, Mi.Node E electric modules and the Mi.Host server. A Mi.Hub collector is configured to automatically receive data from Mi.Node modules at prescheduled intervals or on demand.

REAL TIME DATA: The Mi.Hub collector maintains a log of all data retrieved from every meter. The Mi.Hub collector can be instructed to retrieve “On Demand” meter readings from one or all meters equipped with Mi.Node meter interface units assigned to it, providing true, two way communications to each meter. The stored data is then transferred to the Mi.Host server for immediate viewing by utility personnel with the appropriate log in/password authorization.

SECURE COMMUNICATIONS: A variety of options for Mi.Hub collector to Mi.Host server communication are available. Standard Telephony, wired network connections (Ethernet, fiber, DSL), wireless cellular (GSM/GPRS), WI-FI 802.11b or any existing network infrastructure are all supported to fully utilize available utility assets. One Mi.Hub collector can support up to 2000 individual water, gas or electric meters. All communications through the Mi.Hub collector are encrypted for maximum security.

The Mi.Hub collector is powered directly from a 120VAC source or from an attachable solar panel. The Collector is enclosed in a weather proof case that can be mounted in virtually any location with confidence.



Mi.Hub

Materials and Specifications

One Mi.Hub collector can collect data from thousands of meters	
GSM/GPRS< Ethernet, WI-FI or Modem Dial-up, connectivity to Mi.Host server	
Easily Installable	
Less than 2 Watt Power Consumption	
AC, DC or Solar Powered Versions	
FCC and UL Compliant	
Solid-state Storage; 2MB Flash Memory for storage of readings	
ENVIRONMENTAL	-30 to +70°C Operating; -40 to +85°C Storage; 5 to 95% Relative Humidity; Nema 4x Weather Proof Enclosure; AC Line Voltage; 120VAC ± 20%; 60Hz ± 20%
SOLAR POWER (Option)	5 Day Continuous Operation With-out Sunlight; Sealed Lead-Acid Battery; Solar Panel Sized To Region Where CCOM Installed; 10.6—>30 VDC power input
BATTERY BACK-UP (Option AC Unit)	Up to 4Hrs. Continuous Operation Without AC Power
POWER	4W Idle; 9W Active; 14.5W Active & Battery Charging
PHYSICAL	Size 10.4"x7.2"x3.0"; Weight approximately 2.5lb Add 4.8lb for Battery Back-up
GPRS	Transmit power of 1.6W; GPRS Class 10 operation; Dual-band 850/1900 MHz GSM/GPRS operation; Coding Schemes: CS1 to CS4; Embedded TCP/IP stack Packet data up to 85.6K bps; External 2dBi Antenna; External high gain Antenna available ; WiFi Interface; IEEE 802.11 b/g operation; WEP 64/128, WPA – PSK, TKIP, AES end-to-end encryption; Infrastructure or ad hoc networking; DHCP to ease installation; ICMP and SNMP for remote diagnostics and monitoring; Remote configuration capability
RADIO	FCC Approved; 915MHz ISM Band Operation Frequency Hopping/Spread Spectrum Operation; 1W Transmit Power; External 2.5dBi Antenna

Specifications Subject to Change

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