Mega-Net Collector (SMR5000™)

General	
Power	110-220V AC
Backup Batteries	12V, 2x7 AHr Sealed Lead Acid
Operating Temperature	−22°F / 140°F (-30°C / 60°C)
Display	Digital LED bar
Physical Dimensions	16" x 24" x 8"
Weight	44 Lbs
Enclosure	NEMA 4
Modulation	Proprietary Narrow Band
Power Output	6W
No. Of Channels	Modular, up to 8 channels
Parameters Selection	Using dedicated SW. via RS232/USB port (GUP5000™)

Overview

KP Mega-Net is the only solution industry wide to offer a complete End-to-End RF communication from the end points through the Collectors and back to the Receiver. The SMR5000™ collector receives meter readings from the end points and retransmits them within milliseconds back to the Base Station Receiver allowing the utility to monitor and identify alarms such as continuous flow, no flow, leaks, tampering, and reverse flow, all in real time. Using its unique high power output (6 Watts) the SMR5000™ delivers data transmission over long distance (tens of miles) eliminating extensive and expensive network deployment.

Operation

The SMR5000™ collector operates on a licensed frequency in the VHF 154-174 MHz or UHF 450-470 MHz. Being the only true RF solution, Mega-Net is independent of any third party communication such as Cellular (GPRS), Wi-Fi, or Ethernet, therefore, there is no ongoing maintenance, lease contracts, or network upgrades (such as 3G to 4G on cellular based solutions) for the life time of the system. On the contrary, the SMR5000™ receives the information coming from the end points and retransmits it within milliseconds allowing the utility to benefit from real time reads, fault detection and water theft.

Performance

The SMR5000™ collector provides enhanced system management as well as performance analysis, and signal strength measurement of any End point on the network. The SMR5000™ collector supports instantaneous installation verification, and reports back to both the installer in the field and the Head-End simultaneously. Based on two and a half decades of expertise and experience deploying Fixed Networks in the demanding security industry, KP employs field proven levels of safety measures to protect the data, creating the most reliable communication system offered to the AMI industry. Security measures include time slots, channel monitors, data package repetitions and many others.

Features

- 6 Watts – Highest power output industry wide
- Radio (RF) communication = primary backhaul
- Data transmission over long distance.
- Store & Forward signals within milliseconds
- FCC licensed frequency
- Automatically transmits critical alerts in real time
- Instant installation verification
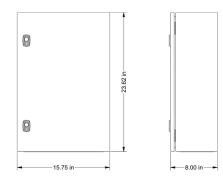- Signal Strength measurement
- Network management

- Built in redundancy, time slots & Channel monitor
- Alert when status has been changed – power fail, low battery, tamper etc
- Backup Batteries = 72 hours of operation
- Secondary backhaul options include Cellular (GPRS), Wan, Wi-Fi, and others
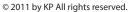- NEMA 4 enclosure

Key Benefits

- True RF live system
- No third party backhaul reliance
- zero running costs
- Enhanced network management
- Low infrastructure = Low initial investment = less maintenance
- Quick deployment

23.62 in
15.75 in
8.00 in

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