



Description

The Willowglen 6000 Series Remote Terminal Unit (RTU) is designed with flexibility, scalability and the capability to withstand rugged environment. The 6000 series was designed for plate mounting in either standalone or with clip-on or external I/O card operations. Each I/O card has a small micro-controller to handle sampling, filtering and processing. All protection circuitry is located onboard thereby eliminating the need for external protection cards. The I/O modules are connected to the processor card via a high-speed RS485 interface allowing distributed operations.

The 6000 series can be installed with multiple processor modules that feature video-audio capture and compression hardware. The RTU has the ability to transmit both point and video-audio data over the same communication network. This will allow real-time video images at remote sites to be viewed at the control centre. The video images can also be stored continuously on a hard drive at the RTU for historical viewing. The RTU can be equipped with a clip-on expansion card that can be used for monitoring sensors, activating signals and controlling the pan, tilt and zoom controller of the camera if required. In addition, audio data can be transmitted to the RTU for playback over an appropriate speaker system.

The 6000 Series is very useful for mission critical applications where the integrated video monitoring feature can be used for alarm verification, to provide visual site information, to perform personnel verification and to enhance site security. Typical applications are in water distribution management, water sewerage and treatment plant, building security surveillance, oil & gas satellite production platform monitoring, oil & gas pipeline management, tank farm management and transportation & traffic monitoring.

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Features

- 64-bit High Performance RISC processor running at 250Mhz.
- H.263 full motion or single frame video compression technique.
- Optional DSP accelerator plug-in card for high frame rate applications.
- Integrated data and video-audio transmissions.
- Easy communication to host computer and other intelligent devices using either industry standard MODBUS, IEC 870-5-101 or other protocols.
- Built-in 10/100 Mbps Ethernet interface for high-speed communication.
- IEC 61131-3 Programming Interface.
- POSIX compliant operating system with Real-time Extensions.
- Extensive network protocols and interface capabilities including TCP/IP, DHCP, and PPP.
- Surge protection exceeding IEC 61000-4-5 and ANSI/IEEE SWC C37.90-1989 built into the I/O modules.
- Extensive self-diagnostic functions, monitoring temperature, power input, battery status and a watchdog-timer.

Advantages

- Remote video monitoring through phone line or high-speed wide area networks and reduces wiring costs as telemetry data and video share common transmission medium.
- Flexible RS485 multi-drop configuration provides flexibility and expandability for future needs.
- External protection devices and isolators for I/O points are not required.
- Local archiving of compressed video images but retrievable for remote viewing.



6000 Series

- Powerful and reliable open-system architecture that offers new levels of performance, response time and reliability.