InGateway601 Series
Industrial Intelligent Gateway

Automation Anywhere

With the prevailing of automated devices, manufacturers, system integrators and end-users are facing ever greater challenge in device management and maintenance. Integrating 3G cellular routing, Modbus data acquisition, SMS alarming and VPN technologies, the InGateway601 intelligent gateway is a networking product designed for remote maintenance and management of field industrial devices.

On the industrial site, InGateway601 polls operation variables of the field controller and builds secure VPN tunnel connected to the monitoring center. Administrators may log in the monitoring center at any time to check real-time status, set alarming criteria, etc. When triggered by a predefined criteria, it alerts engineers timely with auto SMS alarming. Through an on-demand VPN tunnel, the engineer can remote debug, diagnose and program the field controller, completing maintenance securely from anywhere over the ubiquitous cellular networks.

The product can also be used as the communication gateway for collaborative operation of devices.
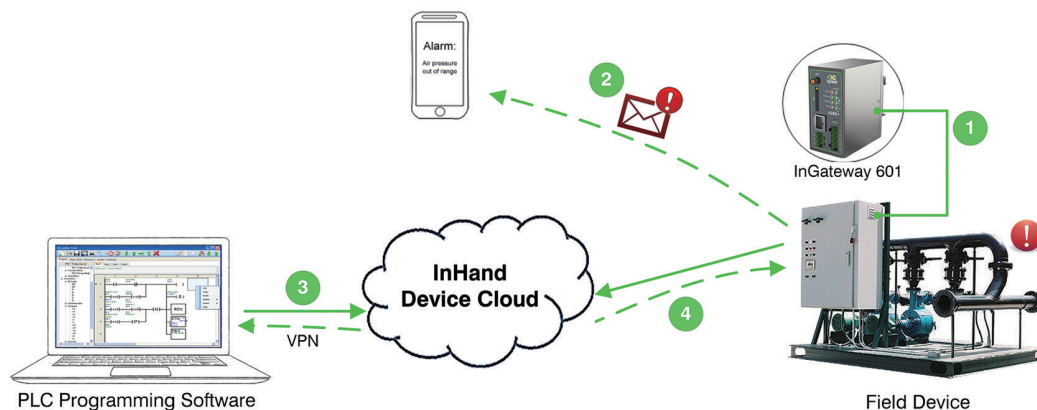
inhand

Networking Scheme

Features and Advantages

Remote Monitoring and Auto SMS Alarming

+ Real-time monitoring, with Modbus acquisition of operation variables
+ Auto SMS and Web alarming by pre-defined criteria

Robust Security Protection

+ Multiple VPN encryption modes: GRE, L2TP, PPTP, IPSec, OpenVPN, Certificates
+ SMS White List, shielding from malicious messages
+ Stateful firewalls against network attacks
+ Multi-level user authorization

Ruggedized for Industrial Environments

+ EMC class 3
+ Wide operating temperature: -30˚C~+70˚C
+ Wide voltage input: 12~24VDC
+ Metal housing with fan-less cooling, IP30
+ 1.5KV isolation protection on Ethernet port; 15KV ESD protection on serial port

Remote Maintenance via PLC Programming

+ Login through native client of InHand DeviceTouch to re-mote debug, diagnose and program PLCs
+ Communicate through on-demand VPN tunnel

Easy to Manage

+ User-friendly Web configuration
+ SMS inquiry and control. By SMS messaging, administrator may remote inquire variables or control PLCs via Modbus over serial or Ethernet port, or reboot IG601
+ SNMPv3, v2, and v1 for integration with customer network management systems
+ InHand DeviceManager, enhanced network management of cellular devices

Serial Port Networking

+ Protocol conversion between serial and Ethernet ports: Modbus RTU&TCP, DC protocol, IEC101&104
+ Multiple virtual serial links

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