



Scout-S™ Station Controller

Substation Automation



Engineered to order. Built to last.

Scout-S™ Station Controller

The Scout-S Station Controller is a SCADA enabled remote terminal unit (RTU) with a data concentrator, event reporter, and built-in communication protocols that allow the monitoring and communicating of data from multiple intelligent electronic devices (IEDs) to SCADA. The Scout-S modular I/O architecture combined with data concentration and the built-in client server protocols enables a scalable solution with communication flexibility for applications such as substation automation.



Scout-S™ RTU Controller (back)

Features / Benefits

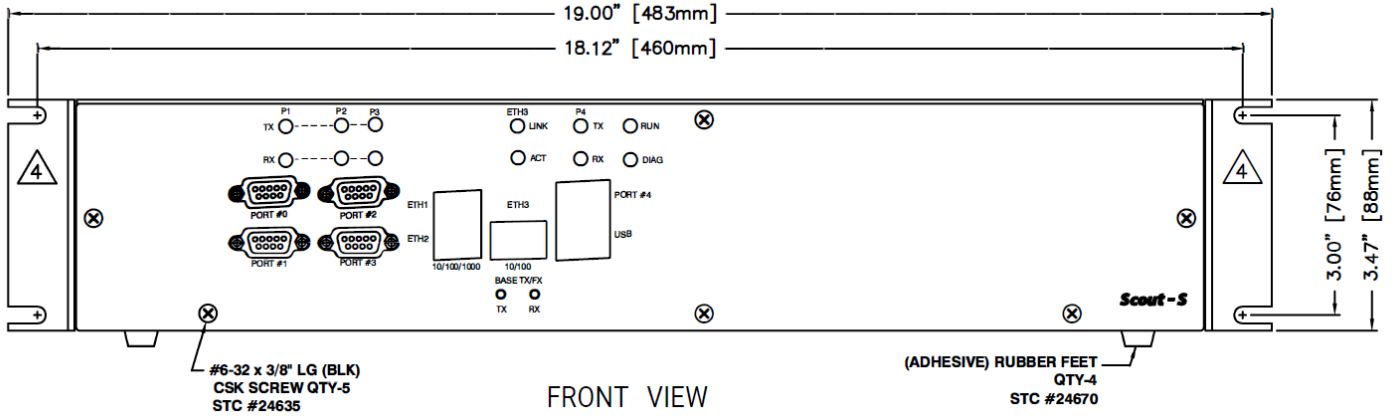
- Monitor and communicate with up to 45 IEDs with scalable RTU I/O, up to 256 analog & digital I/O points per Scout-S module and a database size of up to 16,000 points
- Data Concentrator converts data between multiple communication protocols
- Simple IED configurations and diagnostics with integrated Web Server
- USB interface for easy software updates
- Powerful & fast processing power with 800MHz Dual Core microprocessor
- Designed for harsh outdoor environments with a wide operating temperature range between -40°C to +70°C and conformally coated boards

Applications

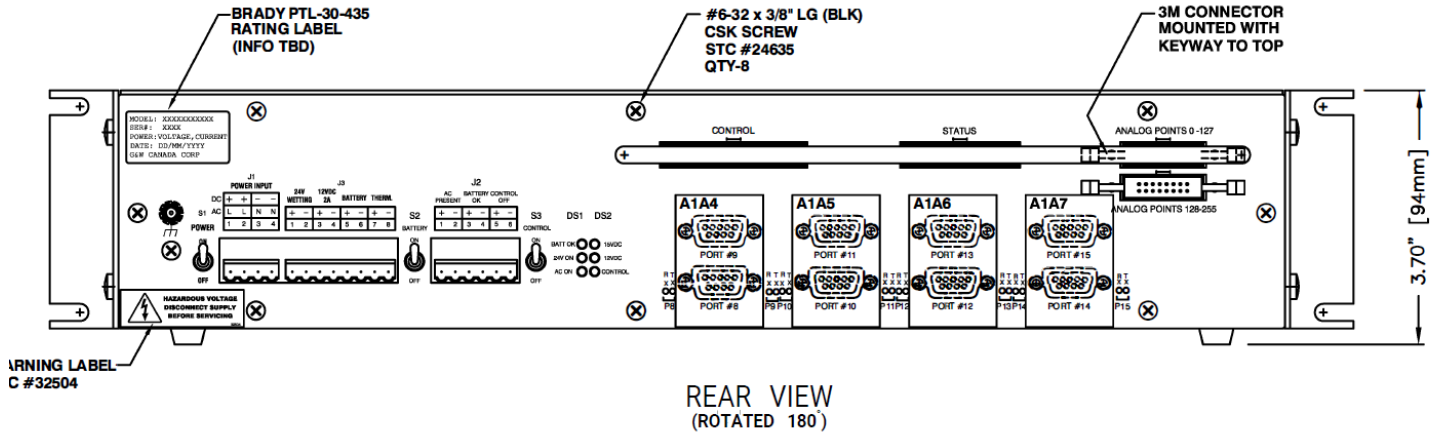
Substation & Industrial Control Automation	<ul style="list-style-type: none"> • Remote monitoring and diagnostics for electrical distribution, pump stations, oil, gas, and transit
Data Concentrator	<ul style="list-style-type: none"> • Input data from multiple IEDs with different communication protocols to one concentrated output protocol interfacing with SCADA • Converts data between multiple protocols
Powerful Web-based Server	<ul style="list-style-type: none"> • Quick and easy operation, maintenance, and configuration of RTU • Simple configuration of IED mapping • No special proprietary software needed
Diagnostics	<ul style="list-style-type: none"> • Convenient remote monitoring of statuses from multiple IEDs • Download event reports to analyze historical data, event status, and analog data
Retrofits	<ul style="list-style-type: none"> • Backwards compatible - upgrade legacy Scout™ RTU modules to improve processing power without impacting existing external wiring

Dimensions

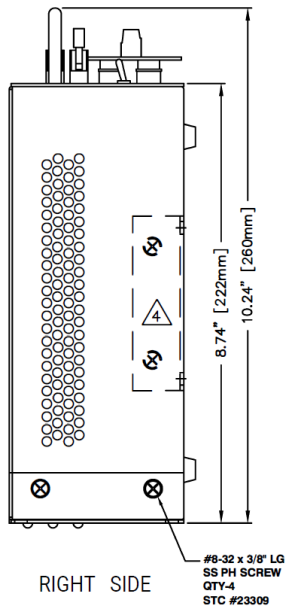
Dimensional View 1



Dimensional View 2



Dimensional View 3



Type Tests	
Test	Standard / Level
Conducted Emissions	• EC 61000-6-4 or EN 61000-6-4 CISPR 11, EN 55011 Class A, Group 1
Radiated Emissions	• IEC 61000-6-4 or EN 61000-6-4 CISPR 11, EN 55011 Class A, Group 1
Electromagnetic Compatibility Immunity	• Tested in accordance with IEC/EN 61000-6-5: 2015 - Electromagnetic compatibility (EMC) - Part 6-5: Generic standards - Immunity for equipment used in power station and substation environment
Electrostatic Discharge	• IEC 61000-4-2, EN 61000-4-2, +6 kV Contact Discharge, +8 kV Air discharge
Radiated RF Immunity	• EC 61000-4-3, EN 61000-4-3, ENV 50204, 10 V/m, 0.8-1 GHz, 3 V/m, 1-6 GHz
Electrical Fast Transient	• IEC 61000-4-4, EN 61000-4-4, + 0.5kV + 1kV + 2kV on AC Lines, + 0.5kV + 1kV + 2kV on DC, I/O Lines
Surge Withstand Immunity	• IEC 61000-4-5, EN 61000-4-5, + 0.5kV + 1kV Differential Mode, + 0.5kV + 1kV + 2kV Common Mode
Conducted Disturbances Immunity	• EC 61000-4-6, EN 61000-4-6, 10 V, 0.15-80 MHz, on AC, DC, 3V, 0.15-80 MHz, on I/O lines
Magnetic Field Immunity	• IEC 61000-4-8, EN 61000-4-8, 100 A/M-Continuous, 1kA/m for 1sec
AC Voltage Dips /Short Interruption	• IEC 61000-4-11, EN 61000-4-11, 60% UT during 60 cycles, 30% UT during 1 cycle
Conducted RF Immunity 15-150 KHz	• IEC 61000-4-16, EN 61000-4-16, 30 Vrms Continuous Disturbance on DC, I/O, 300 Vrms 1 sec Disturbance DC, I/O
Damped Oscillatory Wave Immunity	• IEC 61000-4-18, EN 61000-4-18, 2.5kV Common mode, 1 MHz on AC/DC/I/O lines, 1kV Differential mode 1 MHz on AC/DC/I/O lines
Harmonic Current Emissions	• IEC 61000-3-2, EN 61000-3-2, Class A (Other), Class B (Portable Equipment), Class C (Lighting Equipment)
Voltage Fluctuation and Flicker	• IEC 61000-3-3, EN 61000-3-3
Environmental Cold	• IEC 60068-2-1, 18 hours at -40°C
Damp Heat, Cyclic	• IEC 60068-2-30, 25°C to 55°C, 6 cycles, Relative Humidity: 95%
Dry Heat	• IEC 60068-2-2, 18 hours at +70°C



Scout-S™ RTU Controller
installed in cabinet

Contact us today
905.285.2000 or info@gwelec.com



Engineered to order. Built to last.

Since 1905, G&W Electric has been a leading provider of innovative power distribution solutions, including the latest in load and fault interrupting switchgear, reclosers, system protection equipment and distribution automation. G&W is headquartered in Bolingbrook, Illinois; U.S.A, with manufacturing facilities and sales support in more than 100 countries including China, Mexico, Canada, UAE, India, Singapore and Brazil. We help our customers meet their challenges and gain a competitive edge through a suite of advanced products and technical services.

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