

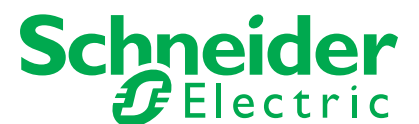
SCADAPack 314

Smart RTU



Meters
Controls
Equipment
Service

www.aquatechnologygroup.com
800-513-8993 | +1 513-298-1183
sales@aquatechnologygroup.com





Built on the proven SCADAPack 300 platform, the SCADAPack 314 features high-performance 32-bit processing, high-speed serial and USB communications, integrated power supply, advanced power management, and a wide range of digital and analog I/O in a cost-effective, compact Smart RTU. Featuring industry-standard Modbus and DNP3 serial protocols, the SCADAPack 314 can be programmed locally or remotely through a choice of flexible programming languages.

This Smart RTU has the same I/O offering as the SCADAPack 334 but without an Ethernet or USB Host port. It also offers the same small footprint, enabling compact mounting enclosures for applications where space is at a premium.



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> P314: 5212 controller board and integrated 5607 I/O board

Controller

| | |
|------------------|---|
| Processors | <ul style="list-style-type: none"> CPU: 32-bit ARM7 microcontroller, 32 MHz clock, integrated watchdog timer Microcontroller co-processor, 20 MHz clock |
| Memory | 16MB FLASH ROM, 4MB CMOS RAM, 4kB EEPROM |
| Non-Volatile RAM | CMOS SRAM with lithium battery retains contents for 2 years with no power |
| Datalog Capacity | 465k words |

I/O

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|----------------|---|
| Analog Inputs | <ul style="list-style-type: none"> 8 software configurable: 0-20/4-20mA / 0-5/0-10V (15-bit) 3 internal: measure incoming power supply voltage for solar applications, battery voltage, and controller temperature |
| Analog Outputs | <ul style="list-style-type: none"> Standard: None 2 with optional 5305 on 5607 I/O board: 0-20/4-20mA (12-bit) |
| Digital I/O | <ul style="list-style-type: none"> 16 digital inputs: 12/24V, 48V, 115/125V, 240V 10 relay outputs: dry contact or DC solid state, dry contact rating: 3A, 30VDC or 240VAC (resistive), DC solid state rating: 3A, 60 VDC |
| Counter Inputs | <ul style="list-style-type: none"> 1 dry contact: 0-10Hz or 0-5kHz 2 turbine or dry contact: 0-10kHz |

Communications

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|-------------------------|---|
| Serial Ports COM1, COM2 | <ul style="list-style-type: none"> RS-232 port, 8-pin modular RJ45 jack, full or half-duplex, or RS-485 port, 2-wire, half-duplex |
| Baud Rates | 300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200 |
| Serial Protocols | Modbus RTU, Modbus ASCII, DNP3, DF1 |
| Serial Protocol Modes | Slave, Master, Master/Slave, Store and Forward |
| USB Peripheral Port | USB 2.0 compliant B-type receptacle |
| Wireless ¹ | Spread spectrum radio at 900MHz ² and 2.4GHz ² |

General

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|------------------|---|
| I/O Terminations | 5, 6, and 9-pole removable terminal blocks, 12 to 22AWG, 15A contacts |
| Dimensions | 5.65 inch (144mm) wide, 6.50 inch (165mm) high, 2.80 inch (72mm) deep |
| Packaging | Corrosion resistant, zinc-plated steel with black enamel paint |
| Environment | 5% RH to 95%, non-condensing, -40°C (-40°F) to 70°C (158°F) |

Power

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|-----------------------|--|
| 5212 Controller Board | <ul style="list-style-type: none"> 11 - 30VDC, 30mW at 12V during sleep mode. 500mW at 12V during normal operation. 32MHz, LEDs off, no expansion, and USB disabled 300mW at 12V during reduced power mode operation. 12MHz, LEDs off, no expansion, USB disabled Add 190mW when enabling the USB port Add 30 to 90mW when enabling the LEDs 8.5W at 24V maximum, 5V supply fully-loaded |
| 5607 I/O Module | <ul style="list-style-type: none"> 11 - 30VDC, 10.3mA plus analog outputs 235mA (max.) at 5V required from 5212 controller board |
| Warranty | 3 years on parts and labor |

Certifications

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|-----------------------------------|--|
| Hazardous Locations North America | Suitable for use in Class I, Division 2, Groups A, B, C and D Hazardous Locations. Temperature Code T4 CSA certified to the requirements of: <ul style="list-style-type: none"> CSA Std. C22.2 No. 213-M1987 - Hazardous Locations UL Std. No. 1604 - Hazardous (Classified) Locations |
| Hazardous Locations Europe | ATEX II 3G, Ex nA IIC T4 per EN 60079-15, protection type n (Zone 2). Does not include Wireless versions. |
| Hazardous Locations | IECEX, Ex nA IIC T4 per IEC 60079-15, protection type n (Zone 2). Does not include Wireless versions. |

1 Available only with optional integrated wireless modules or with stand-alone wireless modules.
2 Not applicable in all countries.

Disclaimer: Schneider Electric reserves the right to change product specifications. For more information visit www.schneider-electric.com.



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| | TBUP314-1A20-AB00 represents a sample code for a SCADAPack 314, 5607 I/O board and Modbus protocol emulation |
| Model | Select: Controller |
| TBUP314 | SCADAPack 314 , 32 Bit controller, 8 Analog Inputs, 16 Digital Inputs, 10 Digital Outputs, 3 Accumulators |
| Code | Select: ProductionPlus Option |
| 1 | None |
| P | ProductionPlus Controller (Well Pad - no runs) |
| A | ProductionPlus Controller with 1 run |
| Code | Select: Gas Flow Run-Time Option |
| A | None |
| Flow Computer Runs | |
| G | 2 Run Gas Flow |
| F | 4 Run Gas Flow |
| V | 2 Run Gas Flow - Gas Transmission Version (Requires Realflo 6.72+) |
| W | 4 Run Gas Flow - Gas Transmission Version (Requires Realflo 6.72+) |
| Code | Select: Protocol Option |
| 2 | Modbus and DNP 3.0 (Level 2) protocol emulation |
| Code | Select: Programming Environment |
| 0 | Telepace Ladder Logic and C Language firmware loaded - IEC enabled (programming tools sold separately) |
| 1 | IEC 61131-3 and C Language firmware loaded - Telepace enabled (programming tools sold separately) |
| Code | Select: Analog Inputs |
| A | 8 selectable as 0-20, 4-20mA, 0-5V or 0-10V |
| Code | Select: Digital Inputs/Outputs |
| B | 16 DI (12/24V) and 10 dry contact relays |
| D | 16 DI (120V) and 10 dry contact relays |
| F | 16 DI (12/24V) and 10 DC solid-state relays, ATEX and IECEx certification |
| H | 16 DI (120V) and 10 solid state relays |
| Code | Select: Analog Outputs |
| 0 | None |
| 1 | 2 channel analog output option, 0 - 20mA |
| Code | Select: Integrated Communication Interfaces |
| 0 | None |
| FreeWave & MDS Radios (requires one RS232 port) | |
| 1 | 900Mhz FreeWave Spread Spectrum Radio |
| A | 900MHz MDS Spread Spectrum Radio |
| Trio Radios - 900MHz (requires one RS232 port) | |
| B | 900MHz Trio Spread Spectrum Radio with encryption, 902-928MHz (FCC / IC) |
| C | 900MHz Trio Spread Spectrum Radio with encryption, 915-928MHz (AUS) |
| D | 900MHz Trio Spread Spectrum Radio, 915-928MHz (BRAZIL) |
| E | 900MHz Trio Spread Spectrum Radio, 921-928MHz (NZ) |
| Trio Radios - 2.4GHz (requires one RS232 port) | |
| J | 2.4GHz Trio Spread Spectrum Radio, ETSI/100mW, ATEX (EUROPE) |
| K | 2.4GHz Trio Spread Spectrum Radio with Encryption, 500mW (CANADA, USA & AUSTRALIA) |
| L | 2.4GHz Trio Spread Spectrum Radio, 500mW (OUTSIDE OF EUROPE, CANADA, USA & AUSTRALIA) |