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Green Premium™

Life Is On Schneider Electric

SCADAPack 330 | 334

Smart Remote Terminal Units



Built on the proven SCADAPack™ 300 controller platform that adheres to open standards and can operate in the harsh demands of a remote environment, the SCADAPack 330 and 334 Smart RTUs feature various communication links, a wide range of analog and digital I/O and a 12...30 Vdc supply.

The SCADAPack 330/334 Smart RTU helps to ease operations with:

- Simple ladder logic option (Telepace™ Studio)
- 28,192 permanent Modbus™ registers for use with logic and C++ applications
- USB host port (on SCADAPack 330/334) for data logging to USB memory stick
- Up to 39 integrated digital/analog inputs/outputs, and more with I/O expansion modules
- Advanced power management
- Tool-less DIN rail mounting system
- IP2x terminal blocks
- Operation from -40...+70 °C (-40...+158 °F)
- Cost-effective, compact form factor

And provides powerful software tools and firmware features:

- EcoStruxure™ Geo SCADA Expert driver for Realflo™ remote configuration and data acquisition
- Optional open-standard IEC 61131-3 programming environment
- C/C++ programming support
- Open-standard industrial protocols Modbus RTU/TCP/UDP and DF1 Client/Server, and open-standard telemetry protocol DNP3 level 2
- Store & forward mechanism between upstream and downstream SCADAPack 300 controllers
- Realflo flow computer for gas and liquids (including specific protocols used for Flow Measurement: Realflo Modbus and Modbus EFM)

Green Premium™ ecolabel product – Sustainable performance, by design

SCADAPack

330 | 334
Smart Remote Terminal Units

Specifications – General characteristics

Controller	
Processor	• 32-bit ARM7 microcontroller, 32 MHz clock, integrated watchdog timer • Microcontroller, co-processor, 20 MHz clock
Memory	• 16 MB FLASH ROM, 4 MB CMOS RAM, 4 kB EEPROM • CMOS SRAM with lithium battery retains contents for 2 years with no power
Datalog Capacity	465,000 words
File system Typical storage	Internal: 6 MB, external : up to 32 GB on USB memory stick

Communications	
Serial Port : COM1, COM2	RS-232 port, 8-pin modular RJ45 jack, full or half duplex, or RS-485 port, 2-wire, half-duplex, supports baud rates up to 115,200 bps in RS-232 mode
Serial Port : COM3	RS-232 port, 8-pin modular RJ45 jack, full or half duplex with RTS/CTS control and operator interface power control, supports baud rates up to 115,200 bps
Serial Protocols	Modbus Client/Server, DF1Client/Server, DNP3 level 2 Server
Ethernet port	8-pin modular RJ45 jack, 10/100 Mbps UTP (10/100Base-T), transformer-isolated
IP Protocols	• Modbus/TCP Server, Modbus/TCP Client, Modbus RTU in TCP Client , DNP3 level 2 in TCP Server • FTP Server
Store & Forward	Stores & forwards frames between upstream and downstream SCADAPack 300 Smart RTUs
USB Device	USB 2.0 compliant “B”-type receptacle, for local configuration
USB Host	USB 2.0 compliant “A”-type receptacle, supports USB devices up to 32 GB (specific memory sticks supported)

General	
Logic Control	SCADAPack Telepace Studio ladder logic or IEC 61131-3 SCADAPack Workbench programming suite (LD, ST, FBD & SFC)
I/O Terminations	SCADAPack 330: 6-pole connector, 0.0810...3.31 mm^2 (28...12 AWG), solid or stranded SCADAPack 334: 5, 6, 7, 9-pole connectors, 0.0810...3.31 mm^2 (28...12 AWG), solid or stranded
Dimensions	SCADAPack 330: 144.0 mm x 140.04 mm x 46.5 mm (5.65 in. wide x 5.53 in. high x 1.83 in. deep) SCADAPack 334: 144.0 mm x 181.0 mm x 66.0 mm (5.65 in. wide x 7.13 in. high x 2.60 in. deep)
Enclosure	Corrosion-resistant; zinc-plated steel base and stainless steel cover with black enamel paint
Environment	• Conformal coated; 5% RH to 95% RH, non-condensing • -40...+70 °C (-40...+158 °F) operating, -40...+85 °C (-40...+185 °F) storage
Shock & Vibration	IEC 60068-2-27 (tested up to 15 g), IEC 60068-2-6

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Smart Remote Terminal Units

Specifications – General characteristics

Power Supply

Rated Voltage	12...30 Vdc. Limit voltage: 11.5...32 Vdc; turn on voltage: 10...11.5 Vdc; turn off voltage: 9...10 Vdc
Maximum Power	7 W at 24 Vdc (internal 5 Vdc supply fully loaded)
Power Requirements	SCADAPack 330 and 334 support 3 power modes: sleep, normal clock speed and reduced clock speed • Typical power consumption (at 20 °C/ 68 °F):

			At normal clock speed		At reduced clock speed	
SCADAPack Model	Ethernet/ USB	DO Relays	12 Vdc	24 Vdc	12 Vdc	24 Vdc
Sleep mode			80 mW	240 mW	80 mW	240 mW
330	OFF		0.7 W	0.9 W	0.5 W	0.7 W
	ON	—	1.8 W	2.0 W	1.6 W	1.8 W
334	OFF		0.9 W	1.2 W	0.7 W	1.0 W
	OFF	ON	2.9 W	3.4 W	2.7 W	3.2 W
	ON	OFF	2.4 W	2.8 W	2.3 W	2.6 W
	ON		4.0 W	4.5 W	3.8 W	4.3 W

Certifications

EMC and Radio Frequency	• ICES-003 Issue 5 August 2012 • CE and RCM markings
General Safety	UL 508
Hazardous Locations	• cCSAus Non-incendive Electrical Equipment for use in Class I, Division 2, Groups A, B, C and D • IECEx/ATEX Class I, Zone 2 • For the latest information regarding product environmental compliance visit the Schneider Electric Check a Product portal at https://checkaproduct.se.com/

SCADAPack

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Smart Remote Terminal Units

Specifications – Digital and Analog Inputs/Outputs

Controller Board	
Counter Inputs	• 1, 0...10 Hz (dry contact) • 2, 0...10 kHz (turbine or dry contact)
Internal Power monitor	Power input - analog input and low indication, onboard lithium battery - low indication
Internal Temperature Monitor	Controller temperature range -40...+75 °C (-40...+167 °F)

I/O board (334 only)	
Analog Inputs	8, software-configurable to 0...20, 4...20 mA , 0...5 or 0...10 V, plus over range • Resolution: 15-bit ADC (15-bit over the measurement range in 10 V, 14-bit in 20 mA) • Accuracy: ±0.1% of full scale at 25 °C (77 °F), ±0. 2% over temperature range • Input Resistance: 250 Ω or 20 kΩ in 20 mA or 10 V configurations (60 kΩ for 32.768 V) • Normal rejection mode: 27 dB at 60 Hz • Sampling rate: 170 ms • Isolation: 500 Vac from logic and chassis
Analog Outputs	2 (optional), 0...20/4...20 mA, voltage output may be accomplished with external precision resistor Same features as for the analog outputs located on the controller board
Digital Inputs	16, 12…24 Vdc • Turn on voltage: 9 Vdc (minimum), Turn off voltage: 4 Vdc (maximum) • Over-voltage tolerance: 150% sustained over-voltage without foreseeable damage • DC input current: 0.67 mA at 24 Vdc • Time stamping : 170 ms • Isolation: in group of 8, 1500 Vac from logic supply and chassis
Digital Outputs	10, dry-contact relays or solid-state relays (Form A - normally open) • 5 contacts share one common • Isolation: Chassis or logic to contact 1500 Vac (1 min.) Dry-contact relays: • Contact rating 3 A, 30 Vdc (resistive), 12 A maximum per common Solid state relays: • Load voltage 60 Vdc maximum • Load current 3 A continuous max at 50 °C (122 °F) or 2 A at 70 °C (158 °F)

Additional I/O	
I/O Expansion	• Supported modules: 5502, 5504, 5505, 5506, 5304, 5403, 5404, 5405, 5410, 5414, 5406A, 5407, 5409, 5411, 5415, 5401, 5402, 5606, 5607 • A maximum of 16 I/O modules (excluding the integrated I/O module) can be added. Additional power supply modules may be required.

SCADAPack

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Model Code

	SCADAPack 330/334
Model	**Select: Controller**
TBUP330	SCADAPack 330, Controller 32-bit
TBUP334	SCADAPack 334, Controller 32-bit

Code	**Select: Future Option**
1	None

Code	**Select: Gas & Liquids Flow Run-Time Option**
A	none
	Gas Only Flow Computer Options
G	2 Run Gas Flow
F	4 Run Gas Flow
V	2 Run Gas Flow - Gas Transmission Version
W	4 Run Gas Flow - Gas Transmission Version
	Gas & Liquids Flow Computer Options
L	Gas & Liq 1: Supports 1 Gas run, 1 Liquid run, and 1 Water run
M	Gas & Liq. 2: Supports 2 Gas runs, 2 Liquid runs, and 2 Water runs
N	Gas & Liq. 3: Supports 3 Gas runs, 3 Liquid runs, and 3 Water runs
P	Liq. 4: Supports 4 Liquid runs and 4 Water runs

Code	**Select: Protocol Option**
2	Modbus and DNP3 level 2 protocol emulation

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Model Code continued

SCADAPack 330/334

Code	Select: Programming Environment
0	Telepace Ladder logic and C language firmware loaded – IEC 61131-3-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	P330: none. P334 : 8 selectable as 0...20 mA, 4...20 mA, 0...5 Vdc or 0...10 Vdc

Code	Select: Digital Inputs/Outputs
A	P330 only: none
B	P334 only: adds 32 16 digital inputs (12...24 Vdc), 10 digital outputs (Dry Contact relay for Class I Div 2, Solid State relay for IECEx/ATEX)

Code	Select: Analog Outputs
0	None
1	P334 only: 2-channel Analog Output, 0...20 mA, external DC supply

Code	Select: Future Option
0	None

Code	Select: Certifications
S	With FCC, UL508, CE marking and RCM
X	Adds IECEx/ATEX Class I, Zone 2
U	Adds $_{c}$CSA$_{us}$ Nonincendive Electrical Equipment for use in Class I, Division 2, Groups A, B, C and D

Note: Accessories sold separately.

Disclaimer:
The information provided in this document contains general descriptions and/or technical characteristics of the performance of the described products or services. For detailed specification, performance and instruction of use, refer to corresponding Catalogs and user guides if available.

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Green Premium™

Schneider Electric's commitment to deliver products with best-in-class environmental performance.

Green Premium™

More than 75% of our product sales offer superior transparency on the material content, regulatory information and environmental impact of our products:

- RoHS compliance
- REACH substance information
- Industry leading # of PEP's*
- Circularity instructions

Learn more about Green Premium

Green Premium promises compliance with the latest regulations, transparency on environmental impacts as well as circular and low-CO_2 products.

CO2 and P&L impact through… Resource Performance

Green Premium brings improved resource efficiency throughout an asset's lifecycle. This includes efficient use of energy and natural resources, along with the minimization of CO_2 emissions.

Cost of ownership optimization through… Circular Performance

We're helping our customers optimize the total cost of ownership of their assets. To do this, we provide IoT-enabled solutions, as well as upgrade, repair, retrofit, and remanufacture services.

Peace of mind through… Well-being Performance

Green Premium products are RoHS and REACH-compliant. We're going beyond regulatory compliance with step-by-step substitution of certain materials and substances from our products.

Improved sales through… Differentiation

Green Premium delivers strong value propositions through third-party labels and services. By collaborating with third-party organizations we can support our customers in meeting their sustainability goals such as green building certifications.

*PEP: Product Environmental Profile (i.e. Environmental Product Declaration)

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

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