

SCADAPack 100 | 300 | 32

Smart Remote Terminal Unit Selection Guide for Oil & Gas Applications



SCADAPack Modbus-centric Smart RTUs

Products at a glance

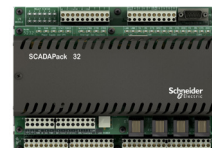
A range of compact Smart RTUs that combines the capabilities of a Remote Terminal Unit with the power of a Programmable Logic Controller; designed to run in challenging, remote environments. Optimized for Modbus™-centric control and monitoring applications, the SCADAPack™ 100 | 300 | 32 range provides smart controller platform solutions with energy-efficiency, ruggedness and cost-efficiency in mind.

Smart RTU for Challenging Applications

- Industrial-hardened; designed for remote applications, offers higher degree of reliability and longevity
- Remote communication; integrates with virtually any communication network including Trio™ data radios and 3G mobile networks
- Optimized for solar applications; ultra-low power consumption reduces the size of the solar panel and extends operation
- Integrated RTU/Data logger/ Gas Flow Computer; enhanced control & data logging capabilities to increase operational efficiency and reduce cost

Highlights

- Modbus core database, DNP3 level 2 layer, optional DF1 support
- Programming and configuration: Telepace™ Studio, IEC61131-3, C++
- O & G-focused apps: Realflo™ and Well Optimization
- Designed to operate in challenging environments



SCADAPack 32 Smart RTU



SCADAPack 100 Smart RTU

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Specifications

| SCADAPack Smart RTU Model: | 314 | 330 | 334 | 350 | 357 | 32P | 32 P4 | 32 P4A | 32 P4B | 100 |
|--|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------|
| I/O Module compatibility | | | | | | | | | | |
| | All ⁴ except 5608 and 5610 | All ⁴ except 5608 and 5610 | All ⁴ except 5608 and 5610 | All ⁴ except 5608 and 5610 | All ⁴ except 5608 and 5610 | All ⁴ except 5608 and 5610 | All ⁴ except 5608 and 5610 | All ⁴ except 5608 and 5610 | All ⁴ except 5608 and 5610 | Not supported |
| Analog Inputs on board¹ | | | | | | | | | | |
| 0...20 mA, 4...20 mA 0...5 V, 1...5 V, 0...10 V | 8 | | 8 | | | | | | 8 | |
| 0...20 mA, 4...20 mA or 0...5, 1...5 V, 0...10 V | | | | 8 | | | | | | |
| 0...20 mA or 0...5 V | | | | | | | 8 | | | 3 |
| 0...20 mA or 0...10 V | | | | 5 | | | | 8 | | |
| 0...32.7 Vdc ² | | | | 1 | | | | 1 | | 1 |
| Analog Outputs¹ (0...20 mA, 4...20 mA) | | | | | | | | | | |
| Optional | 2 | | 2 | | 2 or 4 | | 2 | | | |
| Digital Inputs on board¹ | | | | | | | | | | |
| 12/24 V, 48 V, 115/125/240 V ³ | 16 | | 16 | | 32 | | | | 32 | |
| 12/24/120/220 V | | | | | | | 16 | | | |
| 24 Vac/30 Vdc, shared with counter inputs | | | | | | | 3 | | | |
| 30 V interrupt | | | | | | | 1 | | | |
| Dry contact, shared with output points | | | | 8 | | | | 32 | | |
| Selectable as input or output | | | | | | | | | | 6 |
| Digital Outputs on board¹ | | | | | | | | | | |
| Dry contact | | | | | 16 | | 12 | | 16 | |
| Dry contact or solid state | 10 | | 10 | | | | | | | |
| Dry contact shared with inputs | | | | | | | 32 | | | |
| Open drain, shared with input points | | | | 8 | | | | | | |
| Controller Status Output | | | | | | 1 | | | | |
| Selectable as input or output | | | | | | | | | | 6 |
| Counter Inputs¹ | | | | | | | | | | |
| 0...10 Hz, 0...5 kHz (dry contact) | | | 1 | | | | | | | |
| 0...6 kHz (turbine or dry contact inputs) | | | | | | | | | | 1 |
| 0...10 kHz (turbine or dry contact inputs) | | | 2 | | | | | | | |
| 0...500 Hz, interrupt input | | | | | | | 1 | | | |
| 0...5 kHz, shared with Digital Inputs | | | | | | | 3 | | | |
| Communication and configurable ports | | | | | | | | | | |
| Serial port - RS-232 | | | 1 | | | 2 | 3 | 2 | 1 | |
| Serial port - RS-485 | | | | | | | | | | |
| Serial port - RS-232/485 | | | 2 | | | | 1 | | | |
| USB Ports - (Peripheral,Host) | (1,0) | | (1,1) | | | | | | | |
| Ethernet - (10BaseT, 10/100BaseT) | | | (0,1) | | | (1,0) | | | | |

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Specifications - continued

| SCADAPack Smart RTU Model: | 314 | 330 | 334 | 350 | 357 | 32P | 32 P4 | 32 P4A | 32 P4B | 100 |
|--|-----|-----|-----|-----|-----|-------|-------|--------|--------|-----|
| Applications | | | | | | | | | | |
| EFM Flow Runs | | | 4 | | | | | 10 | | 1 |
| Programming Software | | | | | | | | | | |
| Telepace Studio, IEC61131-3 | | | | | | yes | | | | |
| C language | | | | | | C/C++ | | | | C |
| Protocols | | | | | | | | | | |
| Master/Slave: Modbus RTU, Modbus ASCII | | | | | | yes | | | | |
| Master/Slave: Modbus/TCP, Modbus UDP | | | | | | yes | | | | |
| Slave: DNP3 (level 2) | | | | | | yes | | | | |

Footnotes: 1. The quantity of I/O may be expanded using Expansion I/O modules (refer to individual product data sheets for detailed specifications). 2. Typically used for DC power monitoring. 3. Some models optionally offer other voltages. 4. All modules: 5302, 5304, 5401, 5402, 5403, 5404, 5405, 5406, 5407, 5408, 5409, 5410, 5411, 5414, 5415, 5421, 5502, 5504, 5505, 5506, 5521, 5606, 5607, 5608 & 5610. (*) Consult the [SCADAPack hardware manuals](#) for more information. (**) May be subject to export restrictions. Please contact your SCADA & Telemetry [business development representative](#) for more details. **Disclaimer:** Not all product features are available in every mode of operation. For detailed product specifications please refer to the individual data sheets & user manuals. Schneider Electric reserves the right to change product specifications. For more information, visit [www.schneider-electric.com](#).

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