

SCADAPack 337E

Smart RTU for water





The SCADAPack 337E Smart RTU features 32-bit processing, serial and USB communications, integrated 12-30Vdc power supply, advanced power-management and a wide range of digital and analog I/O, in a cost-effective, compact package.

This Smart RTU communicates with remote SCADA using open protocols: DNP3, IEC60870-5 and Modbus. It may also be used as a data-concentrator, for slave devices fitted with DNP3 or Modbus communication.

DNP3 (level 4-compliant) protocol supports optional Secure Authentication and/or AGA-12 Encryption to improve message security.

IEC60870-5 protocol is KEMA-certified for both IEC60870-5-101 and IEC60870-5-104.

This RTU may be configured and programmed locally or remotely, and is optionally configurable, directly from StruxureWare SCADA Expert ClearSCADA host software.

It is fitted with the IEC61131-3 SCADAPack Workbench programming language suite.

It offers the same small footprint as the SCADAPack 357E, enabling compact mounting enclosures to be used for applications where space is at a premium.

Product Data Sheet SCADAPack 337E

Specifications



337E: 5210 controller board and integrated 5606 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
Event Logging Capacity	20,000 events
Maximum Database Points	1,000 typical

I/O

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, 0-20/4-20mA (12-bit) with optional card on 5606 I/O board
Digital I/O	<ul style="list-style-type: none"> 32, 12/24V digital inputs 16 relay outputs: dry contact, dry contact rating: 3A, 30VDC or 240VAC (resistive)
Counter Inputs	1, 0-10Hz or 0-5kHz (dry contact); 2, 0-10kHz (turbine or dry contact)

Communications

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
Serial Port COM3	RS-232 port, 8-pin modular RJ45 jack, full or half duplex with RTS/CTS control and operator interface power control
Baud Rates	300, 600, 1200, 2400, 4800, 9600, 19200, 38400, 57600, and 115200
Serial Protocols	DNP3 Slave/Master, IEC60870-5-101 Slave, Modbus RTU Slave/Master and DF1 Master
Ethernet Port	RJ45, 10/100BaseT
IP Protocols	DNP3 in TCP Master/Slave, DNP3 in UDP Master/Slave, Modbus/TCP Client, IEC60870-5-104 Slave, NTP Server, Telnet Server, FTP Server, BOOTP Server, optional Modbus/TCP Server
USB Port	USB 2.0 compliant "B"-type receptacle, DNP3 protocol
Wireless	External modem (e.g. Schneider Electric GPRS modem ref. SR2MOD3)

General

Logic Control	IEC61131-3 SCADAPack Workbench programming suite (LD, ST, FBD & SFC)
I/O Terminations	5, 6, 9 and 10-pole removable terminal blocks, 12 to 22AWG, 15A contacts
Dimensions	8.40 inch (213mm) wide, 6.13 inch (155mm) high, 2.80 inch (72mm) deep
Packaging	Corrosion resistant zinc-plated steel with black enamel paint
Environment	5% RH to 95%, non-condensing, -25°C (-13°F) to 70°C (158°F)

Power

5210 Controller Board	<ul style="list-style-type: none"> 11 - 30VDC, 8.5W typical Add 25 to 100mW when enabling the LEDs 12W at 24V maximum, 5V supply fully loaded
5606 I/O Module	<ul style="list-style-type: none"> 600mA (max.) at 5V required from 5210 controller board 11 - 30VDC, 12mA plus analog outputs
Warranty	3 years on parts and labor

Certifications

- CE marking
- C-Tick
- UL508 (US/Canada) - cULus
- FCC/ EN61000-6 emissions & immunity

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Product Data Sheet SCADAPack 337E

Model Code

	TBUP337-EA55-AB00 represents a sample code for a SCADAPack 337E with 12V dry-contact relay outputs and IEC61131-3 programming.
Model	Select: Controller
TBUP337	SCADAPack 337E, with Model 5606 I/O board, comes with 8 Analog I/P, 2 optional Analog O/P, 32 Digital I/P, 16 Digital O/P and 3 Counter I/P
Code	Select: Platform
E	E Firmware platform (SCADAPack E Configurator software included), executes two IEC61131-3 kernels (optional), Workbench required
Code	Select: SCADA Security
A	None
B	AGA-12 Encryption for DNP3
C	DNP3 Secure Authentication SAV2
D	DNP3 Secure Authentication with AGA-12 Encryption
	Notes: <ul style="list-style-type: none"> The Security Administrator Application has to be purchased to generate and manage security keys. AGA-12 Encryption is subject to export restrictions. Please consult with your TRSS business unit contact.
Code	Select: Protocol Option
5	DNP3 Slave/Master, IEC60870-5-101/-104 Slave, Modbus RTU Slave/Master and DF1 Master
Code	Select: License Option
5	Includes DNP3 Data Concentrator license (limit of 500 points from 10 IEDs), Multiple DNP3 Master License (up to 3 Masters)
Code	Select: Analog Inputs
A	4
Code	Select: Digital Inputs/Outputs
B	32 inputs and 16 outputs
Code	Select: Analog Outputs
0	None
1	2
Code	Select: Future Option
0	None