Compact and Versatile Controller for SCADA & Telemetry Solutions

SCADAPack x70 Smart RTUs

Unique Features

SCADAPack™ x70 Smart RTUs combine the monitoring and communications capabilities of remote terminal units (RTU) with the processing and data-logging power of programmable logic controllers (PLC), providing superior functionality wherever remote processes require automatic supervision and autonomous control.

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Enhanced performance in oil/gas and water/wastewater applications

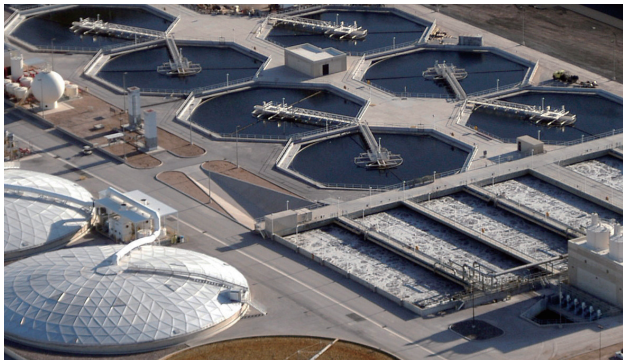
SCADAPack x70 Smart RTUs are the foundation for a range of solutions offering specific software and configuration tools tailored to your needs in:

Digital Oil Field Solutions:

- Electronic Flow Measurement
- Well Production Optimisation

Water/Wastewater Solutions:

- Optimised for Remote Pumping Networks
- Lift Station Control



Multiple Applications - SCADAPack x70

Oil and Gas:
- Tank monitoring and automation
- Well test automation
- Well production and optimization
- Measurement

Water & Wastewater
- Leakage detection
- Equipment monitoring & control
- Water quality monitoring
- Irrigation
- DMAs (District Metering Areas), PMAs (Press. Monitoring Areas)
- Monitoring flow / level / pressure and temperature, etc.
- and many others...

SCADAPack RTU	Analog Input[1]	Analog Output[1]	Digital Input[1]	Digital Output[1]	Frequency Input[1]	Serial Port	Ethernet Port	USB Device Port	USB Host Port
470	4	0	4	2	4 (shared with DIs)	5	2	1	1
474	12	2 (option)	20	12	8 (shared with DIs	5	2	1	1
570	0	0	2	1	0	4	3	1	1
575	6	2 (option)	18	9	8 (shared with DIs)	4	3	1	1
574	8	2 (option)	18	11	0	4	3	1	1

Footnote:
[1] Number of on-board I/O may be further expanded for any SCADAPack using Expansion I/O Modules. Refer to individual product data sheets for detailed specifications.

Selection Guide

SCADAPack x70

SCADAPack 470 | 474 Specifications

Architecture	
Processor	Dual ARM® Cortex® A7, plus ARM Cortex M3; 500 Mhz
Memory	• SRAM – 4 MB, battery backed static RAM • DDR3 RAM – 256 MB, dynamic RAM • NAND Flash – 256 MB, flash memory
Maximum DNP3 and IEC 60870-5-104 events	Up to 40,000 time-stamped DNP3 events (reduced if database exceeds 10,000 objects)
Database Capacity	• Maximum number of database objects: Typically 15,000 • Maximum number of database objects linked with logic programming: Typically 6,000 • Object memory: • Typical 2,600,000 bytes (event buffer at 5000 events) • Maximum: 2,756,800 bytes (event buffer at 100 events) • Minimum: 1,480,000 bytes (event buffer at 40,000 events)
Maximum DNP3 Outstation devices (polled by the SCADAPack when it is operating as a DNP3 Master)	Approximately 90
Maximum DNP3 Outstation objects (polled by the SCADAPack when it is operating as a DNP3 Master)	Approximately 15,000* across DNP3 Outstation devices
Maximum Modbus Server Devices when polled using the configurable Modbus Scanner**	150
Maximum objects mapped from Modbus devices	3,000*
File System Storage	Approximately 70 MB
USB host storage	• Single-partition plug-in USB mass storage devices up to 32 GB • File format: FAT32
Communications	
Serial Ports: 1, 2	RS-485: 2-wire half-duplex operation. 4-pin removable terminal block, maximum baud rate 115,200 bps.
Serial Ports: 3, 4	• RS-232: TxD, RxD, CTS, RTS, DCD, DTR • RS-485: 2-wire half-duplex operation • 8-pin modular RJ45 jack, maximum baud rate 115,200 bps
Serial Port: 5	• RS-232: TxD, RxD, CTS, RTS, DCD, DTR • Switched power out for modem, 350 mA available at RTU inputs voltage 12...24 Vdc, 8-pin removable terminal block under top cover.
Serial Protocols	DNP3 level 4 outstation/master and peer-to-peer, Modbus RTU server/client
Ethernet Ports: Eth1, Eth2	8-pin modular RJ45 jack, 10/100 Mbps UTP (10/100 Base-T), transformer-isolated, switched or independent ports
IP Protocols	• DNP3 level 4 in TCP or in UDP Master/Outstation and peer-to-peer, • Modbus/TCP Server, Modbus/TCP Client • IEC 60870-5-104 controlled station • Telnet Server, FTP Server

Selection Guide
SCADAPack x70

SCADAPack 470 | 474 Specifications cont'd

Communications cont'd	
USB Device Port	• USB 2.0-compliant C-type receptacle • Supports communications at 1.5 Mb/s and 12 Mb/s
USB Host Port	• USB 2.0-compliant A-type receptacle • Supports USB mass storage devices up to 32 GB • Supports communications at 1.5 Mb/s and 12 Mb/s

* Varies depending on object types, event storage, and integrated application memory usage.
** Refer to product manual for details as actual maximum number of Modbus server devices depends on polling method(s) and port type (serial or Ethernet).

General	
Logic Control	RemoteConnect software (SCADAPack x70 Logic with five IEC 61131-3 languages)
I/O Terminations	3.3...0.08 mm2 (12...28 AWG), solid or stranded
Dimensions	• SCADAPack 470: 142 mm W x 127 mm H x 67 mm D (5.59 in. x 5.00 in. x 2.64 in.) • SCADAPack 474: 142 mm W x 166 mm H x 88 mm D (5.59 in. x 6.54 in. x 3.46 in.)
Packaging	• Corrosion-resistant zinc-plated steel with black enamel paint • Conformal-coated circuit boards
Environment	• -40…70 °C (-40…158 °F) operating temperature when the unit is mounted horizontally on a vertical surface • -40…65 °C (-40…149 °F) operating temperature when the unit is mounted in any other position • -40…85 °C (-40…185 °F) storage temperature • 5...95% relative humidity, non-condensing • Pollution Degree 2, Installation Category I, Indoor use
Shock	IEC 61131-2 ½ sine, 15 ms, 15 g
Vibration	• IEC 61131-2 • 5...8.4 Hz: Amplitude controlled, 7.0 mm (0.28 in) peak-to-peak • 8.4...150 Hz: Acceleration controlled, 1.0 g peak

Power Supply	
Input voltage	Rated Voltage 14…29 Vdc • Turn-on 10…11.5 Vdc • Turn-off 9…10 Vdc
Power requirements	• 2.8 W (SCADAPack 470) • 4 W (SCADAPack 474
Maximum power input to controller (excluding modem)	8.4 W

Selection Guide

SCADAPack x70

SCADAPack 470 | 474 Specifications cont'd

Certifications

Industrial Standards	Requirements specific to the SCADAPack functional characteristics, immunity, robustness, and safety: • IEC/EN 61131-2 • CAN/CSA 22.2 No. 61010-1-12 and CAN/CSA 22.2 No. 61010-2-201 • UL 61010-1 and UL 61010-2-201
CE Marking Compliance	• For the latest information regarding product compliance with European Directives for CE marking, refer to the EU Declaration of Conformity issued for your product at se.com • For the latest information regarding product compliance with RoHS, WEEE directives and REACH regulation, visit the Schneider Electric Check a Product portal at https://www.reach.schneider-electric.com
Installation in Classified Ex Area	• North America: Hazardous locations Class I, Division 2, groups A, B, C, and D, T4 and Class I, Zone 2, T4, -40 °C ≤ Tamb ≤ 70 °C (-40 °F ≤ Tamb ≤ 158 °F) according to CSA C22.2 No. 213-17, UL 12.12.01 • ATEX (SCADAPack 470 only): EU Directive 2014/34/EU in defined atmosphere Zone 2 ATEX II 3G, Ex ec nC IIC T4 Gc according to EN IEC 60079- 0, EN IEC 60079-7 and EN IEC 60079-15 • For Eurasian Economic Union: EAC
Specific Countries	• For Australia and New Zealand: ACMA requirements for RCM marking • For United States: FCC Part 15 Subpart B Class A

Digital and Analog Inputs/Outputs

	Digital inputs 12...24 Vdc		Digital outputs		Pulse counter inputs (shared with DIs)			Analog inputs	Analog outputs
	DI 1...4	DI 5...20	DO 1...2 Controller Board:	DO 3...12	DI 1...4	DI 5...12	AI 1...4	AI 5...12	AO 1...2
470	4	-	2	-	4	-	4	-	-
474	4	16	2	10	4	8	4	8	2

Digital Inputs	• DI 1...4: 12...24 Vdc • DI 5...20 (SCADAPack 474 only): 12…24 Vdc
Pulse Counter Inputs	• DI 1...4: Max. 10 kHz (@ 50% duty cycle). Shared with first 8 digital input channels on lower I/O board • DI 5...8 (SCADAPack 474 only): Max. 1.5 kHz (@ 50% duty cycle) • DI 9...12 (SCADAPack 474 only): Max. 150 Hz (@ 50% duty cycle)
Digital Outputs	• DO 1...2: Form A, NO (Normally Open) relays, 2 A @ 30 Vdc, • DO 3...12 (SCADAPack 474 only): Form A, NO (Normally Open) relays, 2 A @ 30 Vdc
Analog Inputs	• AI 1...4: 0…20 mA, 4…20 mA, 0…5 Vdc, 1…5 Vdc, 12-bit resolution, unipolar, non-isolated, voltage/current selectable by software, configurable for 30 mSec high speed update rate • AI 5...12 (SCADAPack 474 only): 0…20 mA, 4…20 mA, 0…5 Vdc, 1…5 Vdc, 24-bit resolution, single-ended, isolated from logic and chassis. Filtering configuration 'none' results in fast sampling @100 mSec total for all 8 channels, '50/60Hz' filter configuration results in sampling @ 500mSec for all 8 channels
Analog Outputs	AO 1...2 (SCADAPack 474 only): 0…20 mA, 4…20 mA (voltage output with external resistor), 12-bit resolution over 0…20 mA range, single-ended, isolated from logic and chassis
Internal (System) Analog Inputs	• Input power supply voltage monitor, 36 Vdc full scale • Memory/RTC battery voltage monitor • Internal temperature monitor, measurement range -40…75 °C (-40...167 °F)
Clock calendar	±15 seconds per month at -40…70 °C (-40...158 °F)

Selection Guide
SCADAPack x70

SCADAPack 470 | 474 Specifications cont'd

Additional I/O	
Supported Modules	• 5304, 5405, 5414, 5415, 5506, 5606, 5607, 6601, 6607 • When SCADAPack 47x controller is used with 5000-series I/O Expansion modules, order one Inter Module Cable (IMC) adaptor cable (ref. TBUM297138), to adapt from 20 signal lines (used by SCADAPack x70 Smart RTUs) to 16 signal lines (used by 5000-series IO modules) • Maximum number of external expansion modules per unit: 15 *
I/O Expansion Limits *	• Refer to the SCADAPack x70 Documentation Set > Hardware Manuals for further details. • Maximum intermodule cable length (not including the short cables that come with each module) is 1.82 m (75 in.)

* Additional power supply modules (model 5103) may be required for additional bus power, depending on how many expansion modules are included on the bus. Refer to the SCADAPack x70 Documentation Set for further details.

Selection Guide

SCADAPack x70

SCADAPack 470 | 474 Model Code

Code	Select: Hardware Platform
TBUP470	SCADAPack 470, 32-bit controller, Dual Core
TBUP474	SCADAPack 474, 32-bit controller, Dual Core comes with additional I/O
Code	**Select: Firmware Platform**
U	SCADAPack x70 Firmware (RemoteConnect Configuration & IEC 61131-3 programming software, included)
Code	**Select: SCADA Security**
A	Standard security features
C	DNP3 Secure Authentication SAv2 (Security Administrator application required)
Code	**Select: Protocol Option**
5	DNP3 Serial/IP client/outstation/peer-to-peer, Modbus RTU/TCP client/server, TCP/IP
Code	**Select: License Option**
0	None
7	DNP3 Data Concentrator Master License – allows collection of DNP3 events and data from multiple outstations
Code	**Select: Analog Inputs**
A	P470: 4 Analog Inputs, selectable as 0…20 mA, 4…20 mA, 0…5 Vdc, 1…5 Vdc
B	P474: adds 8 Analog Inputs, factory-shipped selectable as 0…20 mA, 4…20 mA, 0…5 Vdc, 1…5 Vdc, and 2 Analog Outputs, selectable as 0...20 or 4...20 mA
Code	**Select: Digital Inputs/Outputs**
A	P470: 4 Digital Inputs (12...24 Vdc), 2 Digital Outputs Form A, NO (Normally Open) relays
B	P474: adds 16 Digital Inputs (12...24 Vdc) and 10 Digital Outputs Form A NO (Normally Open) relays
Code	**Select: Analog Outputs**
0	None
1	574 and 575: 2 channel Analog Output option, shipped selectable as 0…20 mA or 4…20 mA, external DC supply required
Code	**Future Option**
0	None
Code	**Select: Realflo Flow Computer - Flow Run License Options**
0	None
3	3 Runs - any combination of gas, liquid or water totaling 3 runs (gas runs include gas transmission option)
6	6 Runs - any combination of gas, liquid or water totaling 6 runs (gas runs include gas transmission option)
T	10 Runs - any combination of gas, liquid or water totaling 10 runs (gas runs include gas transmission option)
Code	**Select: Certifications**
S	• FCC 47 CFR Part 15, Subpart B; ICES-003; CE and RCM markings, cULus Hazardous Location Class I, Division 2, Groups A, B, C and D, T4; and Class I, Zone 2, IIC • SCADAPack 470 only: Adds ATEX: EU Directive 2014/34/EU) in defined atmosphere Zone 2 ATEX II 3G, Ex ec nC IIC T4 Gc according to EN IEC 60079- 0, EN IEC 60079-7 and EN IEC 60079-15 • For Eurasian Economic Union: EAC

Selection Guide
SCADAPack x70

SCADAPack 570 | 574 | 575 Specifications

Architecture	
Processor	SPEAr 1380 32-bit dual-core Cortex A9 microcontroller, 500 MHz
Memory	• 128 MB NAND FLASH, 128 MB DDR3 RAM • Non-Volatile RAM CMOS SRAM with lithium battery retains contents for 2 years with no power
Maximum DNP3 and IEC 60870-5-104 events	Up to 40,000 time-stamped DNP3 events (reduced if database exceeds 10,000 objects)
Database Capacity	Typical maximum 15,000 objects, max. number of logic connected objects is 6000 (subset of 15,000 total objects)
DNP3 Data Concentrator Client	(Optional) Manages up to 100* DNP3 peer (server) devices for collection of DNP3 data and events from other DNP3 outstations
DNP3 Client Stations	Up to 3
DNP3 Peer Devices	Up to 90
Modbus Client	Up to 80* simultaneous Modbus TCP client (outgoing client) connections
Modbus Server	Up to 20* Modbus TCP server (incoming server) connections
File System Storage	Internal: 70 MB usable; External: 32 GB (using optional memory stick)
USB host storage	• Single-partition plug-in USB mass storage devices up to 32 GB • File format: FAT32
Communications	
Serial Ports: Serial1, Serial2	RS-232 port, 8-pin modular RJ45 jack, +5 Vdc power control, hardware handshaking, maximum baud rate 115,200 bps • Rated to ±15 kV (IEC 61000-4-2, Air Discharge) static protection
Serial Ports: Serial3, Serial4	Configurable as: • RS-232 or RS-485 two wire, half duplex, maximum baud rate 115,200 bps • 8-pin modular RJ45 jack, rated to ±15 kV (IEC 61000-4-2, Air Discharge) static protection
Serial Protocols	DNP3 level 4 server/client and peer-to-peer, Modbus RTU server/client
Ethernet Ports: Eth1, Eth2, Eth3	8-pin modular RJ45 jack, 10/100 Mbps UTP (10/100 Base-T), transformer isolated
IP Protocols	• DNP3 level 4 in TCP or in UDP Client/Server and peer-to-peer, • Modbus/TCP Server, Modbus/TCP Client • IEC 60870-5-104 controlled station • Telnet Server, FTP Server • HART pass through over TCP when connected to SCADAPack 6602 modules
USB Device Port	USB 2.0-compliant “B”-type receptacle, for local configuration
USB Host Port	USB 2.0-compliant “A”-type receptacle, supports USB devices up to 32 GB

Selection Guide

SCADAPack x70

SCADAPack 570 | 574 | 575 Specifications

General	
Logic Control	RemoteConnect software (five IEC 61131-3 languages)
I/O Terminations	Plug-in terminal blocks 0.0810...3.31 mm2 (28...12 AWG), solid or stranded
Dimensions	• SCADAPack 570: 150.5 mm x 134.8 mm x 74.9 mm (5.93 in. wide x 5.31 in. high x 2.95 in. deep) • SCADAPack 574: 150.5 mm x 181.7 mm x 91.0 mm (5.93 in. wide x 7.15 in. high x 3.58 in. deep) • SCADAPack 575: 150.5 mm x 182.3 mm x 86.5 mm (5.93 in. wide x 7.18 in. high x 3.41 in. deep)
Packaging	• Corrosion-resistant zinc-plated steel with black enamel paint • Conformal coated circuit boards
Environment	• Operating temperature -40...70 °C (-40...158 °F), storage temperature, -40...85 °C (-40...185 °F) • 5% RH to 95% RH, non-condensing
Shock & Vibration	IEC 61131-2 mechanical shock (tested up to 15 g shock), IEC 61131-2 vibration
Realflo Flow Computer	Flow Run License Options: • 3 Runs - any combination of gas, liquid or water totaling 3 runs (gas runs include gas transmission option) • 6 Runs - any combination of gas, liquid or water totaling 6 runs (gas runs include gas transmission option) • 10 Runs - any combination of gas, liquid or water totaling 10 runs (gas runs include gas transmission option)
Power Supply	
Rated Voltage and Power	12...30 Vdc: 570 typical 4.3 W, 574 typical 6.5 W, Max. 9.2 W, 575 typical 5.4 W, Max. 9.1 W, Class 2 power supply required
Certifications	
EMC & Radio Frequency	• FCC 47 CFR Part 15, Subpart B • ICES-003 • CE and RCM markings
General Safety	• 570 and 575: UL 508 • 574: IEC 61010-2-201; UL; CSA
Hazardous locations (option)	• cCSAus Non-Incendive Electrical Equipment for use in Class I, Division 2, Groups A, B, C and D and Class I, Zone 2 • IECEx/ATEX Ex nA IIC T4 Gc -40 °C ≤ Ta ≤ +70 °C

These are Green Premium products and RoHS and REACH-compliant.

Digital and Analog Inputs/Outputs

	Digital Inputs		Digital Outputs		Counter Inputs			Analog inputs Lower IO Module:	Analog outputs (option) Lower IO Module:
	Controller Board: 10 ms SOE	Lower IO Module: 1 ms SOE	Controller Board:	Lower IO Module:	Controller Board: 10 KHz (shared)	Lower IO Module: 1.5 KHz (shared)	Lower IO Module: 150 Hz (shared)		
570	2	-	1	-	2	-	-	-	-
574	2	16	1	10	2	-	-	8	2
575	2	16	1	8	2	4	4	6	2

Selection Guide

SCADAPack x70

SCADAPack 570 | 574 | 575 Specifications cont'd

Digital and Analog Inputs/Outputs cont'd	
Digital Inputs	Controller Board: 2 • Din1...2 • 12…24 Vdc • DC input current: 0.4 mA at 12 Vdc, 0.8 mA at 24 Vdc • Ground return connected to Chassis Ground Lower IO Module 574: 16 • DI0...15 • 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 typical at 24 Vdc • Isolation: in groups of 8, 1500 Vac from logic supply and chassis Lower IO Module 575: 16 • DI1...16 • 12…24 Vdc • DC input current: 1.2 mA at 12 Vdc, 2.4 mA at 24 Vdc • Isolation: in 2 groups of 8. Isolation from RTU logic and chassis: 1000 Vac/ 1500 Vdc
Counter Inputs	Controller Board: 2 • DI1...2 • Shared with 2 digital input channels • 0…10 kHz Lower IO Module 575: 8 • DI1...4: 0…1.5 kHz • DI5...8: 0…150 Hz • Shared with first 8 digital input channels on lower I/O board
Digital Outputs	Controller Board: 1 • Dout • Sinking MOSFET output, rated 30 Vdc, 0.5 A, ground return connected to Chassis Ground Lower IO Module 574: 10 • DO0...9 • Dry-contact or solid-state relays (Form A - normally open) • 5 contacts share one common • Isolation: Chassis or logic to contact 1500 Vac (1 min.) • Controls: (DNP3 protocol) Direct Operate, Select Before Operate, Trip/Close, Latch, Pulse Dry-contact relays: • Contact rating 3 A, 30 Vdc (resistive), 12 A maximum per common Solid-state relays: • Load voltage 30 Vdc maximum • Load current 2 A continuous max at 50 °C (122 °F), or 1.33 A at 70 °C (158 °F) ambient Lower IO Module 575: 8 • DO1...8 • 2 Form C relays: SPDT, separate Normally Open/Normally Closed/Common) • 6 Form A relays: Normally Open, one shared common • Isolation: 500 Vac minimum to RTU logic • Maximum Switching Voltage: 30 Vdc or 25 Vac • Maximum Switching Load: 60 W or 50 VA (2 A) • Status & Reporting: Individual relay status feedback to software for quality indication • Controls (DNP3 Protocol): Direct Operate, Select Before Operate, Trip/Close, Latch, Pulse

Selection Guide

SCADAPack x70

SCADAPack 570 | 574 | 575 Specifications cont'd

Digital and Analog Inputs/Outputs cont'd	
Analog Inputs	Lower IO Module 574: 8 • AI0...7 • Software-configurable: 0...20 mA, 4...20 mA, 0...5 Vdc or 0...10 Vdc, plus over range • Resolution: 15-bit ADC (15-bit in measurement range 0…10 Vdc, and 14-bit in 5 Vdc or 20 mA input ranges) • Accuracy: ±0.1% of full scale at 25 °C (77 °F), ±0. 2% over temperature range • Input Resistance: 250 Ω in current ranges, 20 kΩ in voltage ranges • Normal mode rejection: 27 dB at 60 Hz • Sampling rate: 170 ms • Isolation: 500 Vac from logic and chassis Lower IO Module 575: 6 • AI1...6 • Dipswitch-configurable to current or voltage input • Input ranges: 0…20 mA, 4…20 mA, 0…5 Vdc, 1…5 Vdc • Uni-polar, differential • Resolution: 24-bit ADC (19-bit over the measurement range) • Accuracy: ±0.1% of full scale at 25 °C (77 °F), ±0.2% over temperature range • Isolation: 250 Vac isolation from channel to channel and from logic and chassis • Input Resistance: 250 Ω or 800 kΩ in current/voltage configurations • Under range: 4...20 mA measures to 0 mA • Common Mode Rejection: -80 dB @ 50/60 Hz • Sampling rate: software-selectable to 30 ms (unfiltered) or 500 ms (filtered)
Analog Outputs	Lower IO Module 574: 2 • AO0...1 • Optional • 0...20 mA or 4...20 mA, voltage output may be accomplished with external precision resistor. Lower IO Module 575: 2 • AO1...2 • Optional • Output ranges: 0...20 mA, 4...20 mA, voltage output may be accomplished with external precision resistor • Uni-polar • Resolution: 12-bit over 0...20 mA range • Accuracy: ±0.15% at 25 °C, ±0.35% of full scale over temperature range • Power Supply: 12…30 Vdc, external, Current: 50 mA • Isolation: transformer, 500 Vdc maximum to RTU logic and chassis • Load Range: 12 Vdc: 0…475 Ω, 24 Vdc: 0…1075 Ω • Status & Reporting: Individual Open Loop status to software for quality indication • Controls DNP3 Protocol: Direct Operate, Select Before Operate
Internal Power Monitor	• Input voltage monitor with low voltage indication • Memory/RTC battery voltage monitor with low voltage indication
Internal Temperature Monitor	Measurement range -40…75 °C (-40...167 °F)

Additional I/O	
Supported Modules	Supported modules: • 5304, 5405, 5414, 5415, 5506, 5606, 5607, 6601, 6602 • When SCADAPack 57x controller is used with 5000 series modules, order one adaptor cable ref. TBUM297138 to adapt from 20 conductors to 16 conductors).
I/O Expansion Limits	• Refer to the SCADAPack x70 Documentation Set > Hardware Manuals for further details.

Selection Guide
SCADAPack x70

SCADAPack 570 | 574 | 575 Model Code

Code	Select: Hardware Platform
TBUP570	SCADAPack 570, 32-bit controller, Dual Core
TBUP574	SCADAPack 574, 32-bit controller, Dual Core, comes with additional I/O
TBUP575	SCADAPack 575, 32-bit controller, Dual Core comes with additional I/O
Code	**Select: Firmware Platform**
U	SCADAPack x70 Firmware (RemoteConnect Configuration & IEC 61131-3 programming software, included)
Code	**Select: SCADA Security**
A	None
C	DNP3 Secure Authentication SAv2 (Security Administrator application required)
Code	**Select: Protocol Option**
5	DNP3 Serial/IP client/server/peer-to-peer, Modbus RTU/TCP client/server, TCP/IP
Code	**Select: License Option**
6	None
7	DNP3 Data Concentrator Client License - allows collection of DNP3 events and data from multiple outstations
Code	**Select: Analog Inputs**
A	570: None 574, adds 8, selectable as 0...20 mA, 4...20 mA, 0...5 Vdc, 1...5 Vdc, or 0...10 Vdc 575: adds 6, selectable as 0…20 mA or 4…20 mA
B	575: adds 6, shipped selectable as 0…5 Vdc or 1…5 Vdc
Code	**Select: Digital Inputs/Outputs**
A	570: 2 Digital Inputs (12...24 Vdc), 1 Digital Output (open collector)
B	• 574: Upper I/O: 2 Digital Inputs (12...24 Vdc), 1 Digital Output (open collector), Lower I/O: 16 Digital Inputs (12...24 Vdc) & 10 DO (Dry Contact relays • 575: adds 16 Digital Inputs (12...24 Vdc) and 8 Dry Contact Relay outputs (6 Form A, 2 Form C)
C	574: Upper 2 Digital Inputs (12...24 Vdc), 1 Digital Output (open collector), Lower I/O: 16 Digital Inputs (12...24 Vdc) & 10 DO (Solid State relays)
Code	**Select: Analog Outputs**
0	None
1	574 and 575: 2 channel Analog Output option, shipped selectable as 0…20 mA or 4…20 mA, external DC supply required

Selection Guide
SCADAPack x70

SCADAPack 570 | 574 | 575 Model Code cont'd

Code	Select: Realflo Flow Computer - Flow Run License Options
0	None
3	3 Runs - any combination of gas, liquid or water totalling 3 runs (gas runs include gas transmission option)
6	6 Runs - any combination of gas, liquid or water totalling 6 runs (gas runs include gas transmission option)
T	10 Runs - any combination of gas, liquid or water totalling 10 runs (gas runs include gas transmission option)
Code	**Select: Certifications**
S	EMC and radio frequency; FCC 47 CFR Part 15, Subpart B; ICES-003; CE and RCM markings
X	Adds IECEx/ATEX: Ex nA IIC T4 Gc -40 °C ≤ Ta ≤ +70 °C
U	Adds cCSAus Non-Incendive Electrical Equipment for use in Class I, Division 2, Groups A, B, C and D and Class I, Zone 2

SCADAPack 570 | 574 | 575 - I/O Expansion Modules (6xxx)

Part No.	Expansion Modules (complete the following part numbers with an S, U, or X suffix depending on certification required)
Models supported by SCADAPack 530E/535E/570/574/575 models only	
TBUX297583	Model 6601-20 mA, 16 D/I 12...24 Vdc, 8 Dry Contact Relay O/P, 6 config. A/I (0/4…20 mA)
TBUX297584	Model 6601-5V, 16 D/I 12...24 Vdc, 8 Dry Contact Relay O/P, 6 config. A/I (0/1…5 Vdc)
TBUX297585	Model 6601-20 mA, 16 D/I 12...24 Vdc, 8 Dry Contact Relay O/P, 6 config. A/I (0/4…20 mA), 2 A/O (external DC supply)
TBUX297586	Model 6601-5V, 16 D/I 12...24 Vdc, 8 Dry Contact Relay O/P, 6 config. A/I (0/1…5 Vdc), 2 A/O external DC supply)
TBUX297590	Model 6602, Analog I/O, HART, 8 A/I, 4 A/O, 4...20 mA (requires external DC supply)
TBUX297591	Model 6602, Analog I/O, HART, 8 A/I, 4...20 mA

Footnotes: Additional power supply modules (model 5103) may be required for additional bus power, depending on how many expansion modules are included on the bus.

Refer to the SCADAPack x70 Documentation Set for further details.

Note: This product is RoHS-compliant.

Disclaimer: Schneider Electric reserves the right to alter product pricing and product specifications.
For more information, visit www.se.com.

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