

Talus T4c

Smart, compact remote terminal unit

The open, flexible and
secure solution from
Schneider Electric



Keeping you in control

The T4c RTU is a telemetry outstation / field device that provides remote monitoring, control and diagnostic facilities for unmanned sites. In addition to plant input and output, the T4c has built-in functions for alarm analysis, archive data logging and local control applications.

With an ultra compact design and energy efficient operation the T4c is especially ideal for small footprint low I/O, low power telemetry applications.

Suitable for:

- > Water and waste water treatment sites
- > Environmental monitoring systems
- > Abstraction points
- > Booster and pumping stations

With built-in analogue and digital I/O, on board GSM/GPRS modem, serial and IP communications, and IEC 61131-3 user applications, the T4c forms the essential link between your plant and a remote control centre.

The T4c is also fully compatible with many third party devices. In addition to modems, the T4c can connect directly to a local area network, for communication with other controllers and to a wide area network for communication to a control centre or other sites.



The complete package

At Schneider Electric we know that you need complete solutions from one product.

That's why the T4c is a fully-featured RTU that is compact, expandable and flexible, providing remote monitoring, control and diagnostic facilities for unmanned sites.

Fits all of your needs

In addition to the on-board GSM/GPRS modem and optional PSTN modem, the serial and IP communication ports allow the T4c to interface with a wide variety of programmable logic controllers and external modems.

This makes the T4c ideal for those organisations who need a compact RTU while securely linking remote plants with control centres across a number of geographical locations, such as the utilities industries.

Schneider Electric's T4c is part of a compatible range of telemetry products with the T4e expandable RTU.

Planning for the future

Our T4c has been developed to stand the test of time. The integrated Ethernet and SDI-12 allow for expansion, ensuring that your T4c's capabilities grow with your needs.

Organising made easy

The T4e configurator is an easy-to-use, Windows based application that you can utilise to create and modify I/O and communication definitions.

The various I/O modules are presented using a simple tree structure enabling quick zoom-in to set parameters, such as:

- > Device identification
- > Default parameters
- > Communication media and protocols
- > Local and remote I/O

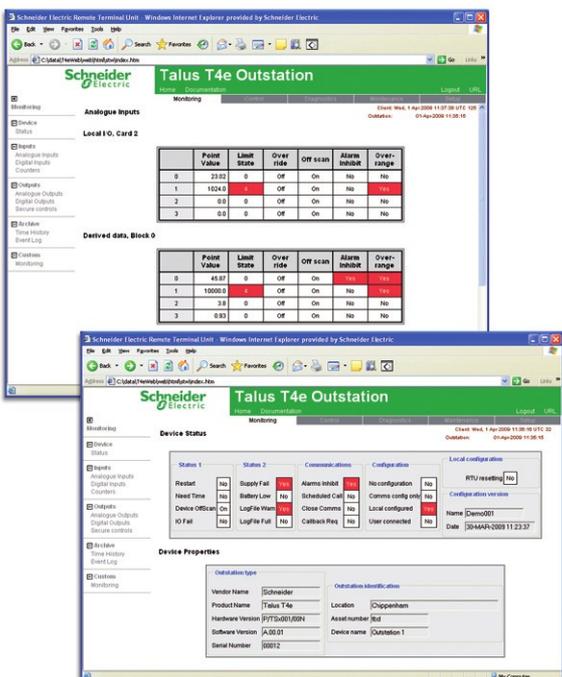
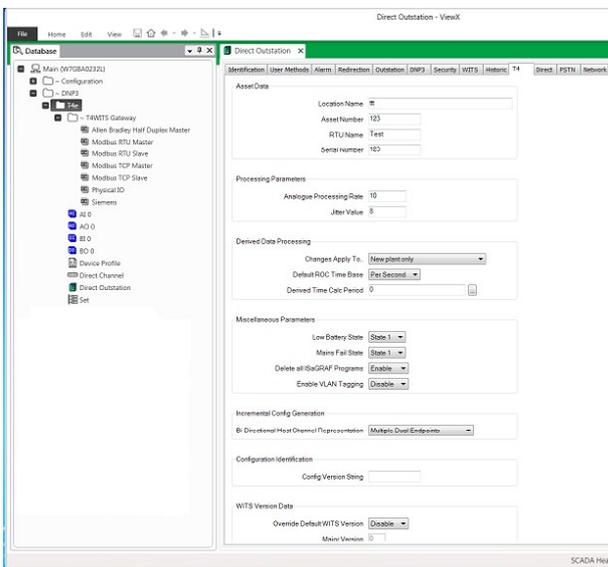
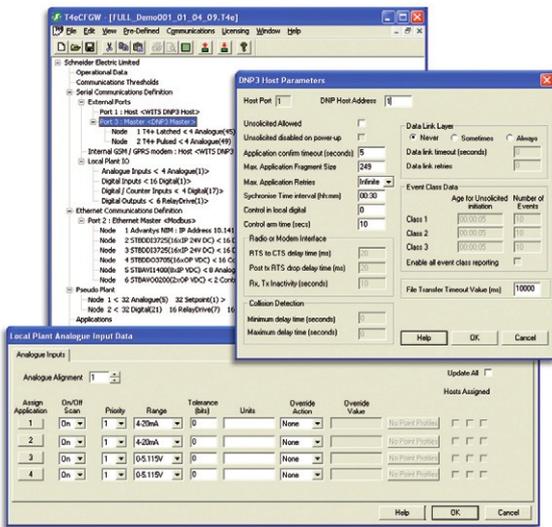
ClearSCADA Integration

If you are already a Schneider ClearSCADA customer, then compatibility goes one step further with all configuration parameters embedded in ClearSCADA giving you complete remote management of you T4 estate.

Safe and secure

The inbuilt web server allows monitoring, diagnostics and maintenance from a PC using standard internet browser. Connection can be achieved directly via a T4c Ethernet port, or remotely using an ASDL router.

Access through the integrated web server is controlled by a secure login system, requiring a correct username and password. Encryption is made easy with the onboard 256 bit encryption accelerator. Five access levels are provided for differing groups, ranging from an observer who can view plant data, to administrator, who has full control of the plant and the ability to set user names and access levels.





For slightly larger sites

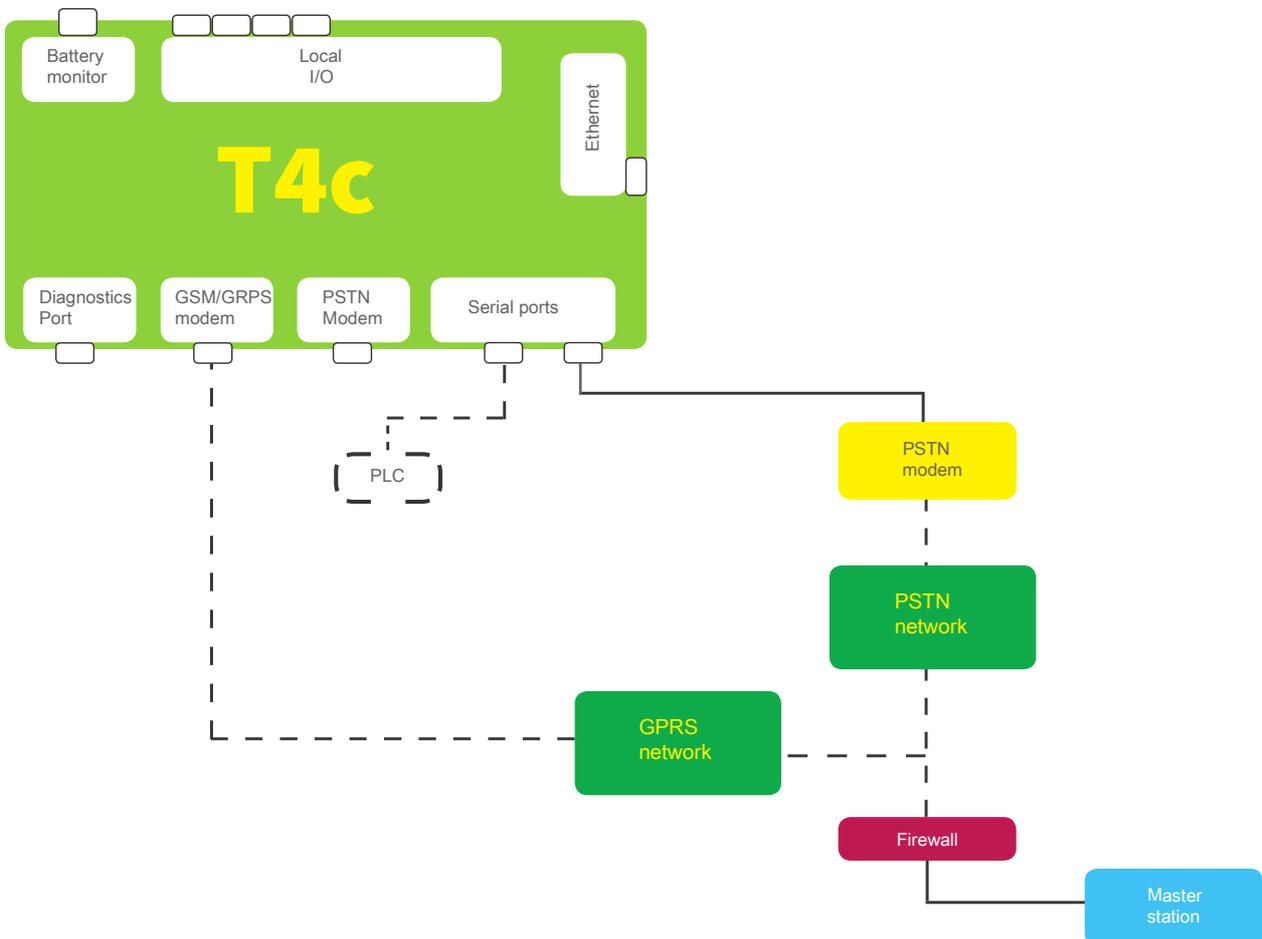
For your expanded sites, don't worry, we've got a solution for you too. The T4c can be used to monitor and control many of datapoints using the Advantys STB I/O Platform, wiring solution and power management system. STB is ideal for integration with other Schneider Electric devices such as our Magelis human/machine interface (HMI), TeSys motor starters and Altivar variable speed drives.

See its bigger brother the T4e for more connectivity and more I/O.

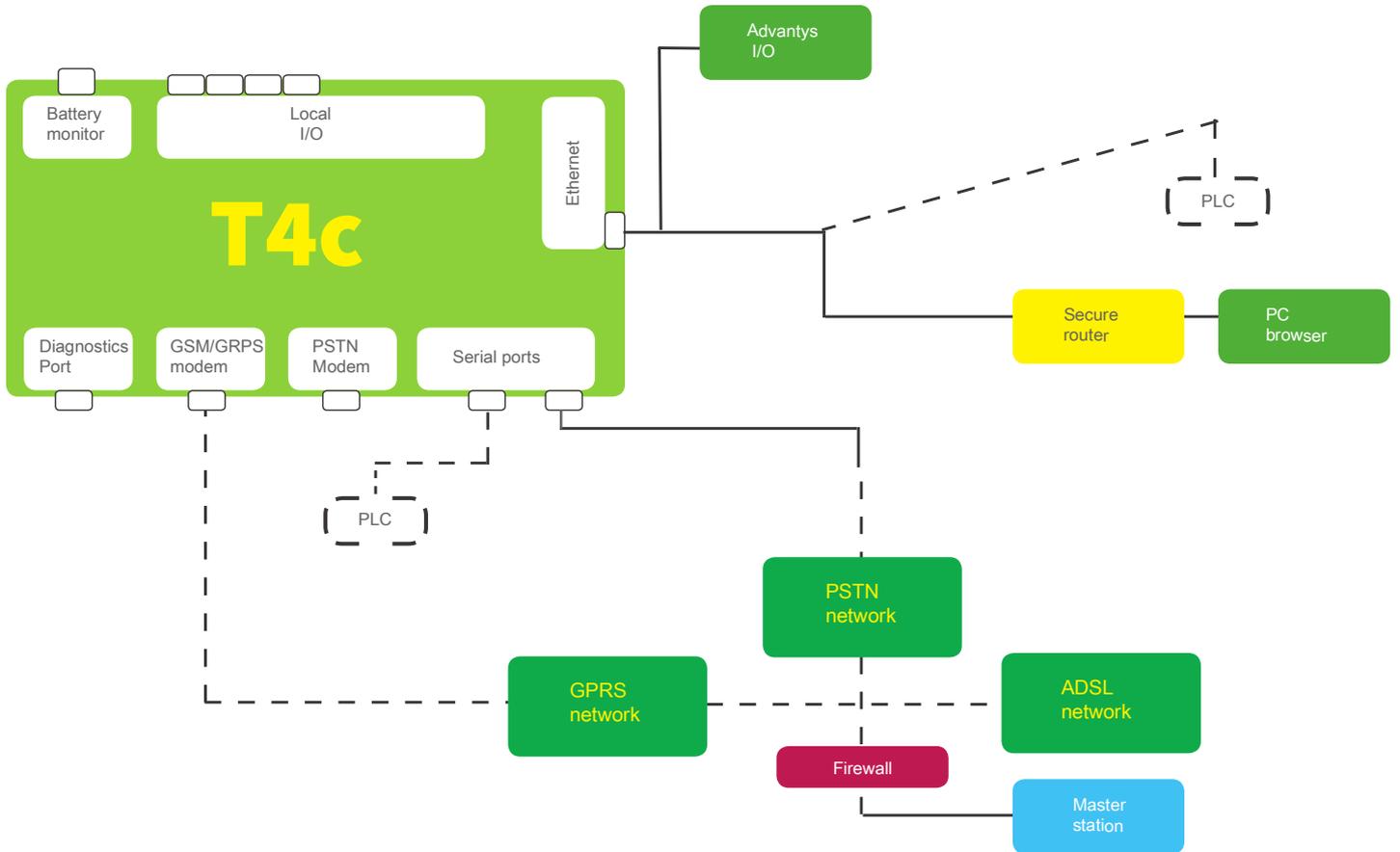


For small sites

The onboard I/O is capable of directly controlling many small sites with limited plant equipment, for example a private pump pumping station or booster station. The onboard GSM/GPRS modem and optional Internal PSTN modem can be used to provide remote communications.



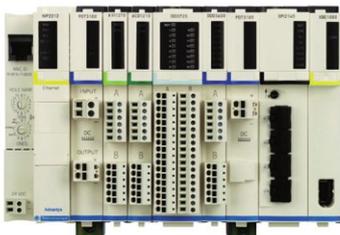
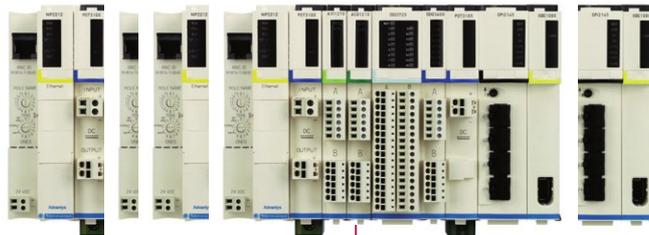
For large sites



Talus T4c
Ethernet

Other speciality modules

- High speed counter
- RTD/Thermocouple
- High current relay
- Low current relay
- AC output
- AC input



Advantys

Extensions up to 15m
7 segments



Magelis XBTN



TeSys motor starter



Advantys FTB monoblock I/O*



ATV31 variable speed drive*

Technical specification

General

Processor	ARM processor with encryption accelerator
Memory	128MB Flash RAM, 32MB SRAM
Operating System	Embedded RTOS
Master Protocols	DNP3, Modbus(RTU/TCP), Siemens S7, DF1
Slave Protocols	DNP3, WITS, Modbus or Proteus
IP Communications	Web server (HTTP / HTTPS), FTP, Modbus, DNP3, WITS
Security	TLS/SSL 256 bit encryption, DNP3 session key encryption, AES-128
Programming Languages	IEC61131-3 structured text, function block diagram etc.
Data logging capability	100,000 records
Database	Licensed to 100 points

Communications

Ethernet	1x 10/100 Base-T
Wireless	GSM / GPRS MODEM (3G/4G optional)
Serial	1x RS-232, 1x RS-232/RS-485
Additional	SDI-12

Plant Input / Output

Digital Inputs	8 digital inputs with indications (inc 2 optional counters)
Digital Outputs	2 relay outputs with indications
Analogue Inputs	4 analogue inputs, voltage or current, 0.25% accuracy

Expandability Input / Output

Advantys STB modular I/O with a wide range of analogue and digital input and output modules

Physical

Power Supply	9-32Vdc 0.2A
Battery Charger	Lithium, NIMH, Lead Acid
Dimensions	110mm x110mm x 61mm
Packaging	12M DIN rail module housing (IP20)
Environmental	-20°C to +70°C, 5-95% RH

Certification

Approvals	CE marked
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**Nationwide support on one number -
call the Customer Information Centre on**

0870 608 8 608

Fax 0870 608 8 606

Schneider Electric's local support

Schneider Electric is committed to supporting its customers at every stage of a project. Our 180 sales engineers, the largest dedicated sales force in the UK electrical industry, operate from 4 customer support centres.

Our sales engineers are skilled at assessing individual requirements and combined with the expert support of our product specialists, will develop the most effective and economical answer taking relevant regulations and standards fully into account.

To access the expertise of the Schneider Electric group, please call 0870 608 8 608. Each customer support centre includes facilities for demonstrations and training, and presentation rooms fully equipped with audio visual and video, providing excellent meeting facilities.

Merlin Gerin

Merlin Gerin is a world leader in the manufacture and supply of high, medium and low voltage products for the distribution, protection, control and management of electrical systems and is focused on the needs of both the commercial and industrial sectors. The newly launched VDI Network Solutions offer provides flexible, configurable ethernet systems for all communication needs.

Square D

Square D is a total quality organisation and its business is to put electricity to work productively and effectively, protecting people, buildings and equipment. Its low voltage electrical distribution equipment, systems and services are used extensively in residential and commercial applications.

Telemecanique

Telemecanique is a UK market leader and world expert in automation and control. It provides complete solutions, with its range of components, Modicon range of high technology programmable controllers (PLCs), multiple fieldbus and ethernet communication networks, HMI, motion control systems, variable speed drives and communications software. In addition, it offers power distribution through prefabricated busbar trunking.

Local customer support centres

South

Schneider Electric Ltd
Langley Road
Chippenham
Wiltshire SN51 1JJ

North

Schneider Electric Ltd
University of Warwick Science Park
Sir William Lyons Road
Coventry CV4 7EZ

Product showrooms

Industrial systems and solutions showroom

Schneider Electric Ltd, University of Warwick Science Park, Sir William Lyons Road, Coventry CV4 7EZ

Building systems and solutions showroom

Schneider Electric Ltd, Stafford Park 5, Telford, Shropshire TF3 3BL

Energy and Infrastructure systems and solutions showroom

Schneider Electric Ltd, 123 Jack Lane, Hunslet, Leeds LS10 1BS

