



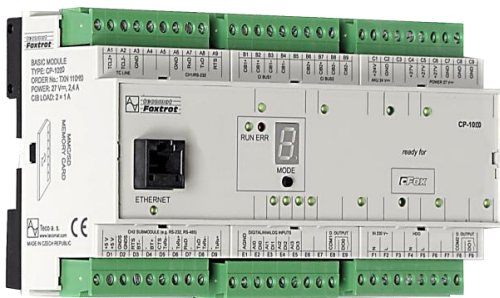
Press Release

Intelligent control and automation

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Teco presents an exceptional central module CP-1000 at Home Automation market

Kolin, Czech Republic, September 19th, 2012



Teco a.s., a company with 36 years experiences in control systems development and manufacturing, presents on just current exhibiton For Arch 2012 in Prague its **new central module for system Foxtrot – CP1000**. The module comes to a fast developing market of **Home Automation**.

Control system Tecomat Foxtrot with new central module CP-1000 **is exceptional on the market** by its combination of centralised control system according to international standards for PLC EN 61131 (thanks to this the system may be programmed anywhere in the world by programmers working with programming languages according to this international standards) and concurrently to parametrize the system and its all typical functions in Home Automation by user in parametrization software tool FoxTool. Using FoxTool there is possibility to set all functions in system very easy without programming knowledges, what appreciate especially small electro-installation companies and electricians.

Control system Tecomat Foxtrot with new central module CP-1000 **is exceptional on the market** by its combination of centralised control system according to international standards

System contains own 2 wires proprietal bus **CIB – Common Installation Bus**[®] (patented solution by Teco), integrated ethernet port, up to 4 serial ports and integrated high capacity data memory up to 32 GB for storage of high volume of data and user web pages. Integrated web server and free programmable built-in web pages directly connected with all measured and controled values as well as very low energy consumption of the system (around 2W) makes Foxtrot with CP-1000 central module a perfect base for creating an universal core of modern Building Automation and save on energy consumption by its possibility to control all kind of energy sources (heating, cooling, recuperation, stopping energy casting and optimization of energy sources) and also by low energy consumption of the whole control system (up to 2W), what is incomparably less then all home automation systems based on PC server solution, what have more then hundred times higher consumption and some other disadvantages.



Image: System Foxtrot controls all technologies in the buildings

Central module CP-1000 of Tecomat Foxtrot system is a perfect tool for designers, electro-installation and programming companies, who are able, based on Foxtrot to create a tailor-made made solution for any customer, adapt the logic and graphics of control according to his individual needs via **wall switches, portable controllers, TV screen, mobile phone or today very popular tablets**. Foxtrot may solve any combination of sources and heat appliances, air-conditioning, photovoltaic panels or even wind power plants. This is an expressive diference from all other products on the market, because other products are more or less focused on some technologies, and for control of all present common technologies in one central system this competitive systems have to be completed by other systems. And very often they use central module CP-1000.

CP-1000 from Foxtrot is often used to complete systems like AMX, Lutron, Cue, Control4, Bang&Olufsen and others. Central module CP-1000 as well as all Tecomat Foxtrot system is designated as global system, so it may be used anywhere in the world.

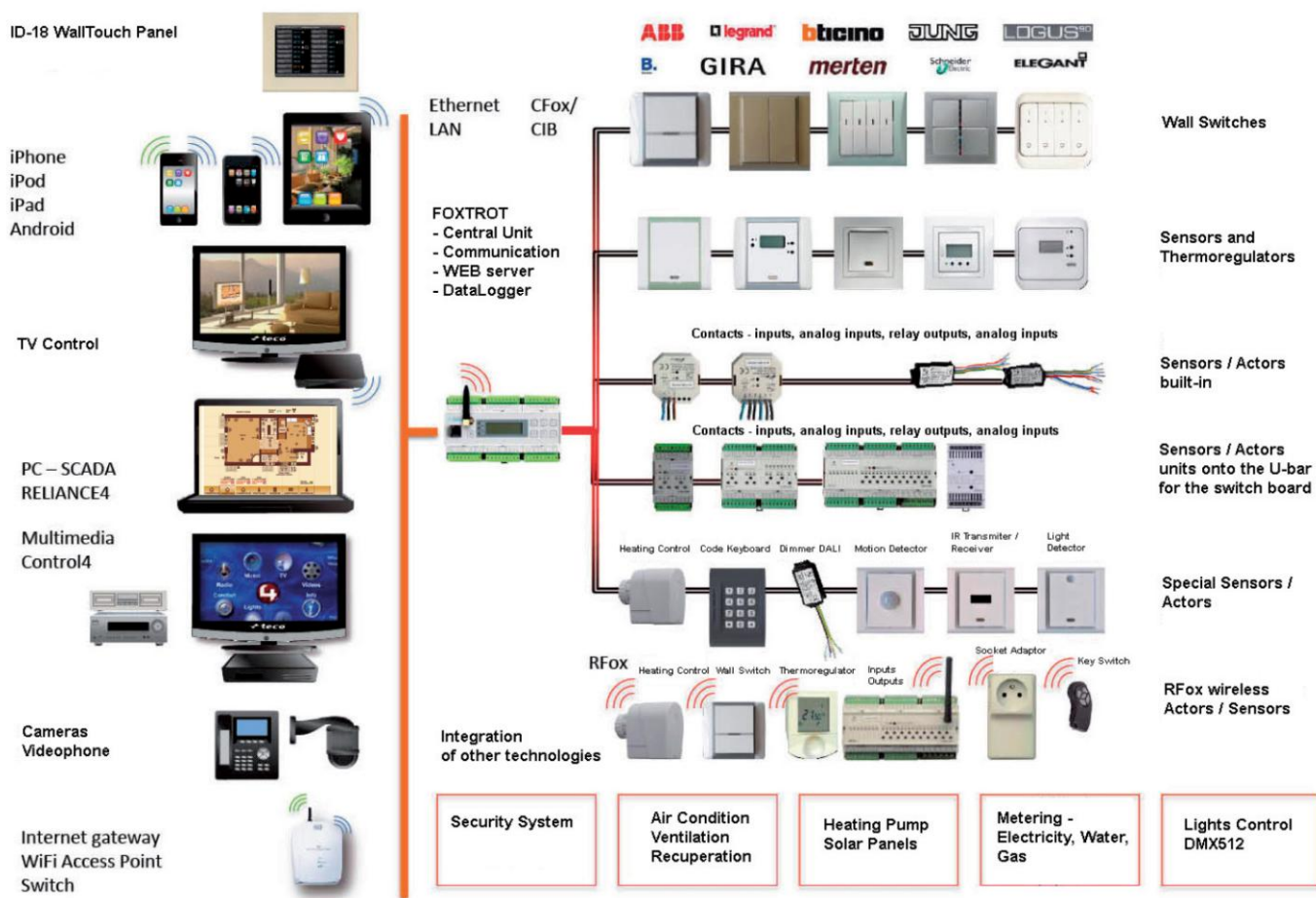


Image: Chart of Foxtrot system shows some kinds of modules and devices possible to connect into system.

The roots of the Foxtrot system and CP-1000 module are in industry



It is launched on the market of not only Home Automation, but also as industrial PLC. This means that the product is extremely reliable and heavy-duty with a long operational life, what is very well appreciated by Building Automation users. The customers usually doesn't take care of units in switchboard lifecycle as well as there is no need to take care about CP-1000 lifecycle, that is very long and many times exceed the lifecycle of usual control devices like wall switches, portable controllers or touch and control panels.

Foxtrot shows its position on the market by many references, let's mention for example Czech Railways, Telemetry network of Nicosia and Larnaka (Cyprus) or

highway control at Caspian Sea. Foxtrot is a standard product on list of CEZ (Czech electricity plant) for next 10 years for using in electricity manufacturing plants. It is also used to control the largest photovoltaic manufacturing plant Veprek (Czech Republic). Six heating pump manufacturers are using central module of Foxtrot as control system of the pump. In Netherlands it is used as control system for ocean yachts and fire patrol trucks. In Russia it is used for exchange stations etc. More references at www.tecomat.com.

The system is opened. This is a unique advantage for let's say unlimited use in control of any technologies anywhere in the world. Via integrated ethernet port the data are both ways available by many standardized protocols, so it may be used as control module, but also as communication and data node and connect data or even control the buildings or technologies on very long distance, e.g. thousands kilometers.



Technology of web access makes Foxtrot timeless, because it is compatible with almost all platforms of PC, smartphones, tablets, smart TV (for instance Smart TV from GL – 2012 Edition) with web browsers and others. It works with browsers Explorer, Firefox, Opera, Safari, operating on operation systems Windows, Linux, iOS, Android, Bada, and others.

Image: Integrated web server in CP-1000 holds control web pages of the building. The remote access to view and control all the building is possible also at TV screen

Thanks to above mentioned features Foxtrot enables exceptional flexibility in solutions of individual and repeatable projects of Intelligent Buildings (Smart Houses). The trend is to integrate separate parts of buildings technologies into one structure with possibility of remote control and remote management and maintenance. Remote management is perspective one of the most important features: **customers may be sure that in the future they will not stay alone with their systems.**

Foxtrot system is the „**building set**“, with possibilities of adaptation and expansion to tailor made solution according to project specification with number and type of sensors and actuators or let's say inputs and outputs (binary or continuous). The core of the system is of course the central module CP-1000.

By its mechanical design, the system Foxtrot is modular and it is compatible with classic modules of circuit breakers. It is designated into technical background of the house and it may be installed into general switch boards on DIN rail.

Connection of central module CP-1000 with other modules may be projected via **centralized wires**, all inputs and outputs are concentrated into one or more switch boards and from here the sensing and control wires come in a star structure to each wall switch, light, jalousie, control socket etc. But because Foxtrot is a bus system, it may be projected with **distributed actuators and sensors**, connected to 2 wires CIB bus up to 400 m length. The bus may have branches and doesn't need any finish elements. Both way may be combined.

Central module CP-1000 may be connected **wirelessly** with wireless modules from RFox line. By this we may create up to 4 own wireless networks, and each network master may be paired with up to 64 wireless modules like portable controller, sensor of temperature, humidity, CO2 and thermostatic valve.

A part of Foxtrot system are expansion modules into switchboard, built-in modules for fitting into wall installation box or under other device cover, modules with IP-65 protection and modules for interiors, especially multi wall switches in designs of important manufacturers, sensors of temperature, humidity, smoke, CO2 etc., elements for setting temperature or IR receivers for air-conditioning control or Audio/Video control.

On direction to the user, CP-1000 may be connected with classic wall switches, but also devices connected via IP port. It may be PC, television, AV multimedia system of any manufacturer, wall touch panel or any broker in smartphone, tablet or PC, anywhere on internet network.



Very important is FoxTrot's communication feature on level of serial ports and ethernet/internet port. These communications are important with connection with other „smart“ devices in house like certified alarm and security systems (DSC, Tecnoalarm, Galaxy, Paradox), camera systems (IP cameras), access systems (door communicator, RFID card readers, electronic lock, Assa Abloy). For communication with heat pump (Nukleon, PZP, AC Heating, ACOND, Regulus, Neota), gas boilers (OpenTherm), ventilation and recuperation systems, air-conditioning units (LG, SAMSUNG, CoolMaster) with light and jalousie systems (LUTRON) and also with household appliances like Miele. Audio/Video systems are favourite for connecting with control of Smart House (Control4, AMX, AVIT, Bang&Olufsen).

Image: FoxTrot connected with AMX device brings to users possibility to control all the building technologies by AMX controllers

System is open enough to be able to connect via appropriate interface with other systems from Home Automation, for instance KNX. This connection **brings to KNX system all advantages** of centralised control, functions and communication to outdoor world.

System contains also counters for reading of pulses from heat meters, it is equipped by communication converters for reading of smart energy meters via M-Bus and in preparation there is a reading of wireless meters via Wireless M-Bus protocol. This brings to FoxTrot users tools for **effective control of energy consumption and savings**.

CP-1000 has also integrated function of datalogger – recorder that store in long time memory any measured values and internal statuses. It may also store Picture from website and text messages. Diary of events is also possible. The data may be sent to external database servers.

For a big applications the central modules CP-1000 may be connected each other with serial links or via ethernet network. This may automate buildings of any size, e.g. hotels, administrative buildings, sport stadium etc. Central modules then exchange data, so the complex acts as one big control system controlled from dispatching by for example visualization system SCADA RELIANCE from PC.

The whole system FoxTrot, respectively central module CP-1000 may be **free programmed according to standard EN IEC 61131**. Programming is possible also on-line during the operation, so the control process for end user is not interrupted.

Programming tool Mosaic is a top product in its category, on domestic market without any competition and on the world markets it compete with system Codesys, that is used by companies like WAGO, ABB, Beckhof, EATON, and about 130 companies. Mosaic may be used for programming even without any big training, what is confirmed by applications of customers from Netherland, Russia, Ira nand others, who never visited the Teco training program.

In simple and standard applications in Building Automation we may simply parametrize the central module CP-1000 with parametrization tool FoxTool, even without programming knowledges. By this we may set all typical functions used in building automation.

Programming and diagnostic may be done **remotely via internet**. This saves money for service employees. As a new, we have created a function „Firmware Updater“, so customers may anywhere in the world update firmware of all or selected modules by present firmware available in „cloud“ on internet.

System FoxTrot stay at the top of the control systems from Teco a.s. The company is a holder of tradition and know-how of control systems from city Kolin in the Czech Republic (earlier Tesla Kolin) and it is a 9th generation of PLC since last 36 years. About the quality of Teco systems show the old systems operating for a really long time – Singing Fontain in Maria Bad since 1986 (system NS905), Krizik Fontain in Prague (5 years younger).



Central module CP-1000 is introduced in exhibiton ForArch 2012 in Prague and has been nominated on Grand Prix Award.

Image: Control systems from Teco are perfectly working for tens of years. This Singing Fountain in Maria Bad (Czech Republic) is controlled by Teco systems since 1986.

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