

VAE CONTROLS GROUP

expertise in fuel storage and operating water control systems



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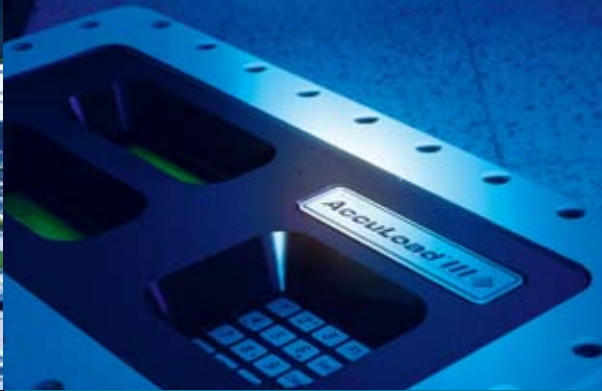
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We are the largest and most experienced company in Central and Eastern Europe involved with technologies and control systems for fuel storage and terminals, water utilities, water cleaning and treatment facilities. We provide solutions for problems that require co-operation between technology experts and electronics technicians, knowledge of regulations from the fields of safety, measuring, the remote transfer of data, hygiene, environmental protection, and the storage and transport of petroleum products.





The reason our company has a leading position on the market is because the customer is always at the centre of our attention. The investment we provide for the customer has long-term and significant importance and therefore the level of our services and deliveries must meet expectations. Our customers require professional and comprehensive services, reliability, flexible warranties, and post-warranty service. Because we apply our own resources in carrying out all specialized projects, we are able to guarantee the highest quality of work.



We offer reasonable prices, short delivery periods, and advantageous payment terms, including credit to investors, usually petrochemical companies, owners and operators of fuel and petroleum storage facilities, chemical concerns, military logistics, airport operators, water management and energy companies, cities and communities.



Only a strong, stable, and financially healthy engineering company with plenty of professional and personnel resources, not to mention experience, can guarantee the customer such high-quality services. We would therefore be happy to show you on the following pages how VAE CONTROLS holding fulfils all these requirements.

the customer is number one



History & profile

of the company

VAE CONTROLS was founded in 1993 with the goal of providing control systems for industrial applications. We gradually expanded our services to include deliveries of light and heavy current equipment, technological units, and the development and production of electronic equipment.

The company has evolved into an international holding, which is able to arrange integrated engineering and design services, the delivery and assembly of equipment, with testing, turnover, warranty, and post-warranty service.

The holding is run by the parent company in Ostrava, Czech Republic. It is responsible for marketing, managing orders, ensuring technical standards, and further development of the holding company. The task of the subsidiaries is to operate independently on local markets and look for new commercial activity. The holding consists of specialized factories for designing and delivering technological products and the development and production of electronics. Subsidiaries and foreign representations give the holding an immediate presence in Slovakia, Poland, Bulgaria, Great Britain, Russia, China, Ecuador, Sudan and Libya.

Thanks to its strategy, VAE CONTROLS has evolved into a modern, dynamic, and competitive company with the potential for international expansion whilst maintaining its basic orientation on the petrochemical and water industry.

Competence, professionalism, quality

A team of 330 highly-qualified and motivated specialists work in VAE CONTROLS holdings. Most colleagues have a university education and experience with international orders. We can do business in English, Bulgarian, Czech, Chinese, German, Polish, Russian, Slovak, Serbian, Arabic and Spanish.

Since we have all the necessary technical equipment and technological background, we employ our own resources for developing, designing, engineering, assembling, and servicing. We have equipment for measuring radio signals and can design radio data networks, equipment for installing optical cabling, and the development means for Serck, Wonderware, Siemens, ABB, and TECO control systems. We use software such as Autocad and Rupan for design work. For managing orders and customer relations, we use sophisticated ERP and CRM systems.

The holding had a turnover of 29 million euros in 2009.

References

...Collaboration with the company VAE CONTROLS was already correct and we fully recommend VAE CONTROLS which fulfills committed obligations... (Nafobazy, Poland)

...The company has fulfilled all our expectations. We have had any problems with the start-up, testing and operation of the loading terminal... (Petrochemia Blachownia, Poland)

...The tests as well the exact operation of the additive dosing system prove the quality of VAE CONTROLS products... (ORLEN, Poland)

...The used software SCX is user friendly, allows easy configuration and offers possibility of extension... (Bourgas, Bulgaria)

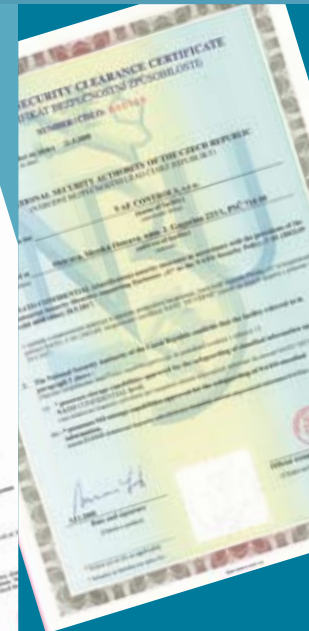
...We have pleasure in confirming that the co-operation with VAE CONTROLS was very good, there were no problems with the installation of the control system... (CZECH AIRPORTS AUTHORITY, Czech Republic)

...The co-operation with the VAE CONTROLS company was very good... (PARAMO, Czech Republic)

...The fuel loading system delivered is reliable... (METROSTAV, Czech Republic)

...The said equipment works correctly and meets the designed parameters... (GENERA d.o.o., Slovenia)

- VAE CONTROLS received the ISO9001:2000 certificate for quality management and ISO 14001:2005 for environmental management system.
- We are authorized by certificate from the National Safety Bureau to work with classified information up through "NATO CONFIDENTIAL" level. VAE CONTROLS is authorized to provide services connected with working with classified documents and can generate such documentation. Because of this, we can work for militaries representing NATO members.
- VAE CONTROLS is a member of the Association of Water and Sewage Sectors (SOVAK), whose members ensure drinking water for 8.5 million inhabitants.
- VAE CONTROLS is a registered integrator of software products from the firms Serck and Siemens.
- VAE CONTROLS is a partner of Siemens for technological provisions for water, petrochemical, and energy control systems.





The widest possible portfolio for handling **petroleum products**

We build new storage facilities or modernise existing ones, as well as repair and maintain them while ensuring their uninterrupted operation. Individual orders range from thousands to millions of euros. We carry out feasibility studies, do design work, deliver control systems, manufacture electrical and electronic equipment, build road, rail,

marine, and airport terminals, organize the construction of tanks, communications, transformer stations, vapor recovery units, water treatment facilities, fire protection systems, and other accessories. We also supply armatures, sensors, flame arresters, computers, and other equipment for automobile and railway tankers.

VAE CONTROLS has become the most important provider of technology for fuel storage in Central and Eastern Europe. By 2005 we had carried out the reconstruction of 23 storage facilities for fuel oil and constructed 4 new ones, of which the largest has a storage capacity of hundreds thousands of cubic meters.

Technology for producing methylester

VAE CONTROLS makes a technological unit for production of methylester. Raw materials, such as rape seed, palm, or other oils of biological origin, including used oils, can be used. Methylester serves as a diesel substitute or provides the basis for 'bio-diesel', an environmentally-friendly fuel, because it is made from renewable sources and produces less harmful by-products – especially soot, nitrous oxides, carbon, and sulphur. The capacity of the unit can be set from 5,000 to 20,000 tons of methylester yearly and is ideal for mid-size to large processors and producers that cannot afford large units with a steady means of production, and whose construction and operation represents a very complicated investment and logistics decision.

The advantage of this technology is the low acquisition costs, trouble-free start-up, simple production process, and possible expansion of production capacity. The methylester produced has a quality comparable with continual production and conforms with EU and US standards. A by-product from the production of methylester is glycerine, which can be used, for example, in the pharmaceutical and cosmetic industry.

We also provide the technology for mixing methylester with diesel or bio-alcohol with gasoline. This technology ensures the exact measuring and regulation of the flow of both ingredients, including recounting based on the reference temperature. These activities comply with the Directives of European Union.

Professional and responsible approach to business partners

Fully automated pumping station.



Double wall storage tanks are fully equipped with accessories, fire extinguishing equipment, flame arresters etc.



VAE is an expert in flow measurement and control of petroleum products.



Maximum level of automation improves system reliability and safety.



Permanent operation, 24 hours a day, 365 days a year...



...is possible thanks to competent equipment setting and rigorous design.



Complete construction

of fuel storage facilities in one

Since the start of our business, we have focused on the comprehensive delivery of technology to fuel storage facilities and terminals for offloading and issuing fuel and other chemicals. We can expand or modernise existing technology or build it from scratch, naturally with full concern for the safety, financial, and environmental needs of the customer.

VAE CONTROLS is able to fulfil even the most demanding tasks. In 2005 we completely rebuilt the road terminal for issuing light products at the Paramo refinery (Czech Republic). We put a new terminal into operation in only seven months following the signing of the contract, including designing the project. The reconstruction involved building modifications and a complete change in technology, including replacing the old MFX control system. The investment was so complicated

that it took place in individual phases, practically during full operation, and with only a minimum amount of interruptions. An additive system forms part of the technology and is used for drying light heating oil and diesel fuel.

Our biggest order to date is the construction of the Sedlnice (Czech Republic) fuel storage facility for investor Čepro a.s. The fuel tanks have a total capacity of 100,000 m³, making it the largest in the Czech Republic and the entire region. Čepro is the owner and operator of a network of the 11 largest storage facilities in the Czech Republic, all of which were reconstructed by VAE CONTROLS. The storage facilities are equipped with the most modern technology, including equipment for drawing and utilizing vapours, bottom loading, and dosing.

We built a river fuel storage facility for OMV in Komárno (Slovakia). The storage facility is there for importing fuel brought by tanker on the Danube. The fuel is moved to a floating storage station before being shipped via rail and road terminal. The investment fulfils the strictest environmental requirements, including protection of emissions and water, and is interesting for the fact that practically all the technology used for handling the fuel is operated in one place.

Among our important clients from the petrochemical industry are Shell, Prague Airport, Česká rafinérská, Orlen, Naftobazy, Petrol, Lukoil, Petrochemia Blachownia, Slovnaft, BorsodChem MChZ, Mazeiku Nafta, Progress Trading, Eastman Kodak, and many others.

- A speciality of VAE CONTROLS is the reconstruction and building of airport fuel storage, in particular for military airports. In addition to fulfilling security conditions, a specific know-how is also necessary for storing aeroplane fuel, protecting it against water, filtering it, dosing it with additives, etc. We carried out the reconstruction and expansion of storage facilities at all airports with regular international operations in the Czech Republic. The reconstruction involved all the technological portions, meaning from offloading to issuing of fuel. The investment was carried out in accordance with local and international flight standards and the internal regulations of the international company Shell. In addition to fuel storage for the Czech Airport Administration, we also deliver vehicular extensions for spraying planes with de-icing compounds.

Efficiency in all our activities

We are licensed with the technological know-how of the holding company PIK. Thus we can do design documentation for buildings of all classes and carry out the delivery and assembly of technological equipment. The company can offer expertise and knowledge to provide the most cost effective combination of fuel handling to ensure required output rates are achieved for the whole life of the plant.

We provide a comprehensive offer of engineering services from consultations, design, and negotiations with local authorities, to assembling and turnover. We of course arrange the supply of spare parts, warranties, and post-warranty service for our customers. We guarantee our contractual partners quick action and uninterrupted on-call service. We demonstrated the quality of our services following the floods of 1997, when we were able to put the entirely flooded storage facility of the firm FAU in Přerov back into operation within a week, including a complete changeover in the control system, sensors, drive mechanisms, and part of the wiring.

We offer our customers standard solutions based on components tried and tested on the world market, which guarantees the fulfilment of all standards, high operational reliability, further expansion if necessary, and quick and simplified service. VAE CONTROLS is a business and technical partner of the firm FMC Energy Systems, whose product lines Smith Meter and Senning represent world-wide standards in the field of measuring and issuing petroleum products. We also co-operate with the firms OPW, Emco Wheaton, Emerson Process, Endress Hauser, Amal Safety Systems, Protego, and many others.

Protego end-of-line flame arresters.



Detail of flow measuring equipment.



PLC part of automation system.



Erection of storage tanks in Sedlnice (CZ).

Top loading becomes replaced by bottom loading which is more efficient, safe and environmentally friendly.



... and other products for **tankfarms**

Automation

For operating fuel storage and terminals, we supply TAMAS (Terminal Automation Management and Administration System) whose main function is the automation of the technological process, solutions for extraordinary situations (ESD - Emergency Shut-down System), visualization and dispatcher control of technology, printouts of filling notes, protocols, registrations of customers and their orders, registration of drivers, vehicles, transactions, etc., communications with other information systems, e.g. economic management, and similar systems, plus archiving of all events. The basic feature of the TAMAS System is its modularity, which provides a solution made to order for each customer. TAMAS can also provide only selected functions as needed - e.g. registration of delivered fuel, or it can provide automatic control of the whole storage system.

The concept of the system guarantees that in event of a failure in a random part of the system, it's still possible to issue fuel while maintaining safety conditions. TAMAS has a decentralized hierarchical structure, which strongly protects it from failures.

The lower level is created by one or more programmable automation devices – Programmable Logic Controller (PLC), which takes care of the algorithms, the automation technology, and cutoffs when system value margins are exceeded. The PLC system, whose structure ensures it maintains the maximum reliability, can function even during an accident in any part of the system or in the upper echelon of the dispatcher system.

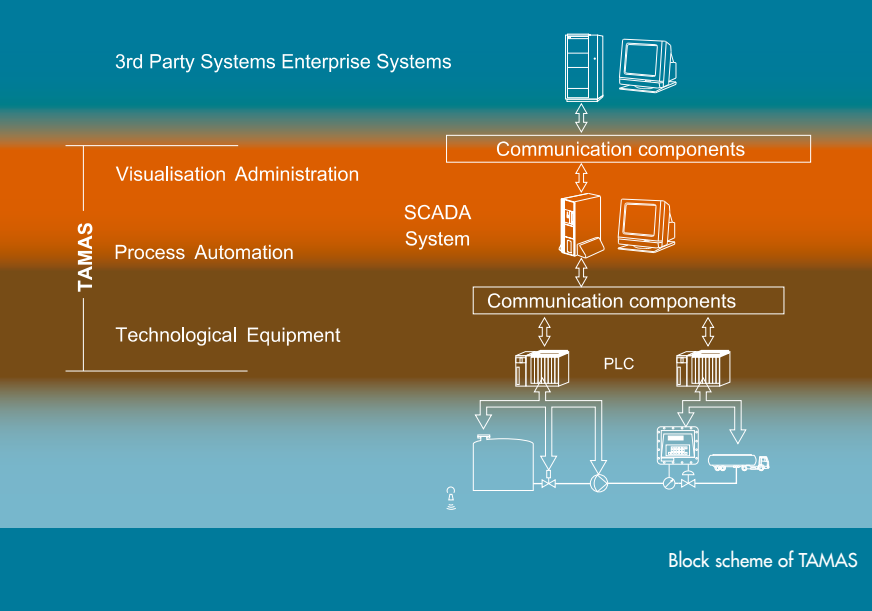
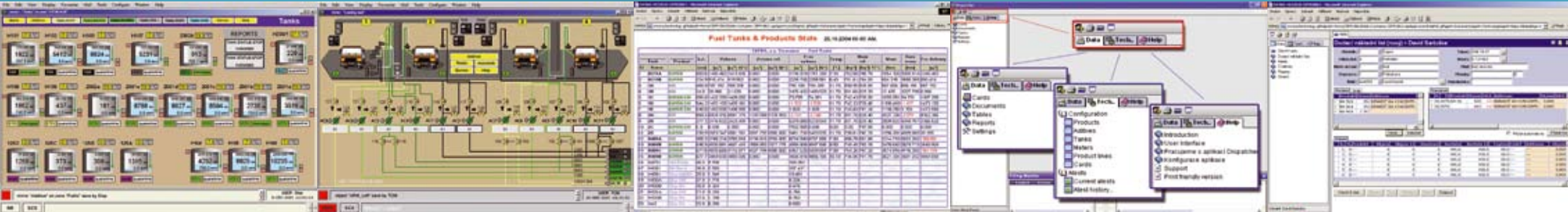
The dispatcher portion of TAMAS is built upon the SCX system from Serck Controls, that is, based on the same system that we use for water utility applications. The structure of a system based on the Client/Server principle allows for the installation of a server licence for two servers, which work in hot-stand-by mode, thus ensuring the faultless functioning of the system even during a failure or a disconnect from one of the servers. The basic functions of the SCADA system provide the user with means for controlling technological equipment with a comfortable user interface, and technological data collection. Operations here are very intuitive and the

customer is able - after short-term training - to perform his own modifications (new screens, mimic diagrams, reports, or alarms) without help from our technicians. This considerably improves the flexibility of the system and saves on service costs.

Thanks to its modular system, TAMAS is good for managing storage facilities of any size and equipped with any level of technology. It's not dependent on the system used for issuing and that is why it is easy to adapt to the actual conditions of the given application. We therefore supply it not only in the framework of our integrated projects, but some of our customers purchase it individually. These customers include, for example, the firms AVE MATROX UAB and Lukoil Baltija, whom we supplied with six complete packages of TAMAS in co-operation with the firm PTI Technologijos.

Business and financial stability

Dispatching part of TAMAS has two main roles: 1. Process visualization and control, 2. Fuel handling and administration (database of products, clients, trucks, etc., management of orders, permissions, deliveries, etc.).



Block scheme of TAMAS



Modular design of programmable logic controllers (PLC) can easy fit individual needs.



Accumul III, the batch controller, and ELBC2 card readers ensure the process level of automation.



Manual/remote automatic control of fire extinguishing pumps.



... and other products for
tankfarms

Additive dosing

We manufacture the additive unit EVA 5 for use in refineries, and in civilian and military fuel terminals. Its purpose is to provide exact and continuous dosing for the transfer or issue of fuel. The amount of the additive is set in accordance with a preset formula and the current flow of fuel, which ensures a homogeneous composition and perfectly mixed final product. The additive system can also be used for fuel colouring or for similar applications where an exact dose of the liquid is required, including chemically aggressive or combustible substances. Since EVA 5 has a modular structure, the customer not only can choose

a certain configuration for the dosing system, but he can also add to it in the future. Part of the equipment consists of a control unit, which allows for connection to any type of flow metre or a flow computer, and its equipment includes an auto-diagnostic and calibration module. One advantage of our additive unit is its simple assembly, high accuracy, reliability, and extensive operational parameters. Proof of its quality and excellent price is the fact that over 340 units were delivered to our customers by 2005. We deliver either the individual additive unit, usually including supervision, or the complete system, including design, tanks, pumps, piping, armatures, and electro-installation.

The most important users of our additive systems are the firms Naftobazy, Čepro, Orlen, Slovnaft, Paramo, the Czech and Slovak militaries, and NATO.

International teamwork

Grounding monitor available in Exn or Exd variant.

EVA5 additive dosing unit.

Grounding monitor

Another successful product is the UZCL3 equipment for grounding road and rail tankers during filling or decanting combustible substances. The equipment ensures the vehicle is grounded and provides an uninterrupted check of this grounding. This in turn ensures that any electrostatic charge is diverted and thus provides a safeguard against explosion, which could be caused by a flash or spark. The equipment fulfils the standards of CENELEC CLC/TR 50404 Code of practice for the avoidance of hazards due to static electricity and the National Fire Protection Association NFPA77. The grounding equipment is certified for use in places at risk for gas or dust explosion. We export the UZCL3 to many countries around the world either directly or through our partners, and that is thanks to the fact that the equipment is certified for working temperatures of -50 to +60° C.

Proximity card readers

The ELBC2 identification system allows loading bench operations to be automated. The system consists of a scanner that reads data from RFID type cards near the sensor and sends it to the operating system. Advantages of the system are the practically indestructible cards and the problem-free communication. ELBC2 like all other products was developed to meet our own needs. Time has shown that we had in fact developed a product that has universal potential and can be used not only in fuel storage facilities but in the entire petrochemical industry. We also supply a modified and simplified version of the system for water utilities, where it protects them from entrance by unauthorized personnel. All the products we deliver are certified for spaces that run the risk from explosion as determined by the ATEX standards in use in countries of the EU.



Ex wireless card reader system.

EVA5 control units.

Hose quick-on connector, a part of EVA5 accessory equipment.



Independence for **water dispatching**

For water management utilities we have developed the SCX SCADA WAMAS telemetric control system, which enables the construction of regional dispatchers for drinking water network and sewage systems. Wastewater treatment can also be integrated into this system. We offer a wide range of PLC and telemetric outstations from the simplest to the most sophisticated redundant systems, which are used, for example, for safety applications.

The principle advantages of our systems are their reliability and freedom, which enable users not only to carry out ordinary maintenance themselves, but also make changes in their configurations, connect them to other computer systems, and expand them. Among the clients who have chosen our systems are the water utilities company Vodovody a kanalizace Jižní Čechy (Czech Republic), Sofyiska voda (Bulgaria), WiK Opole (Poland), ViK Burgas (Bulgaria), Ostravské vodárny a kanalizace (Czech Republic), BVK Beograd (Serbia), Interagua Guayaquil (Ecuador), and a many of others.

Certified solutions fulfilling the expectations of customers not only in carrying out their business objectives, but also in strictly adhering to ecological, safety, and other regulations

TSLC422, a low-cost telemetry station, is suitable for the most simple applications. GSM communication module is directly integrated.

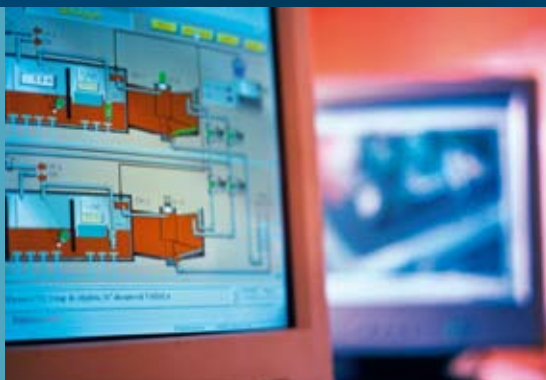
A range of SX expansion modules is available for TSX24 (see below) using DeviceNet bus.

Our own design of intelligent power board.



TSX24, the most comfortable and expandable telemetry station, fulfills any application demands.

TSMGX is applicable for battery powered sites.



Water pipeline monitoring & control

VAE CONTROLS delivers the SCX SCADA dispatcher control system for managing water and sewer networks. It is licensed by the British company Serck, and uses the application upgrade WAMAS (WATER Management System) which we developed. This system consists of RTU and PLC telemetric outstations installed at individual water sites and a dispatcher system based on one or more personal computers installed in a central dispatching station or at technologically sophisticated locations. Transmissions can be made over all available transmission networks, for example, using a radio data network, GSM, GPRS network, telephone networks, LAN/WAN networks, etc. The telemetric

outstations are used in a wide variety of individual RTU types, from simple compact outstations of the TSLC type to the modular oriented outstations of the TSX type, for managing complex technologies. Their introduction completely fulfills the conditions of a water utilities operation; water, humidity, frost, and heat resistance. For local management, the system uses ordinary PLC's of the Siemens, Allan Bradley types, etc. The main advantage of the telemetric outstations for users is the ability to program remotely and establish their parameters directly from central dispatching without the user having to travel all the way to the site.

WAMAS is designed for the operation of systems with exceptional importance, and key parts of the system can be backed up to minimise the risk of a system failure. The number of telemetric outstations and dispatcher computers, the same as the division of the entire system, can be randomly set, and it is possible to adapt it wholly to the needs of the user. The main user advantage of the WAMAS system is its open concept, meaning it can be gradually expanded.

The user can access the WAMAS system remotely using internet applications. This feature allows an almost limitless number of users to connect to the central database of the system and obtain the necessary information. At the same time, the system is protected against unauthorized breaches by third parties.



The use of WAMAS in operating water and sewage networks has its greatest effect in lowering the number of service personnel, increasing the quality of water, lowering the loss of water in pipelines, increasing first-rate parameters, and it makes it possible to optimise the consumption of electricity in accordance with consumption diagrams. The system also reduces the risk of terrorist attacks on water supplies. The WAMAS system simultaneously provides all information necessary for managerial operations, meaning planning sales, investment, maintenance, and human resources.

The structure of the SCX SCADA WAMAS system enables the independent operation of large water utilities, like water treatment facilities. Using the WAMAS dispatcher system for distribution enables the creation of jointly combined water dispatchers, which unifies all types of water and sewage sites and technology.

Reasonable expenditures from financial resources

Our company has put many water dispatching units into operation, of which the largest is the connecting system of the companies VAK JČ and JVS, comprising six regional dispatchers in addition to two central dispatchers in České Budějovice (Czech Republic), and under it are a total of 438 water management sites, including three large treatment facilities. This system is unique not only because of its size, but especially because both systems act as one unit, even though they were built as two independent systems. In the whole Czech Republic, where we have put the most water dispatchers into operation, we have set up more than 1,600 telemetric outstations.

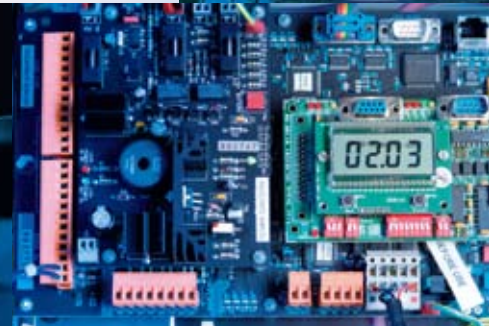
One prestigious order was the control systems for water treatment plant water at the Třebovice (Czech Republic) electric power plant, which belongs to the firm Dalkia. In view of the technological importance of the facility, the control

system was designed as a redundant one with approximately 2,500 inputs and outputs divided into five substations. We carried out this order, included design work, in 4 months!

The technology of WAMAS is based on the SCADA system of Serck Controls (United Kingdom). The same system is used by water utilities around the world, especially in Europe, the Middle and Far East, and Australia. By far the largest installation of SCX is at Thames Water Utilities (United Kingdom) – a wastewater treatment and sewage disposal utility for an area extending from Banbury in Oxfordshire to Guildford in Surrey. The network consists of 365 sewage treatment works and thousands of sewage pumping stations providing services to more than 11.7 million customers. Another important project was the Monitoring & Control of Water Resources for the City of Shanghai (People's Republic of China).

Radio modem, a basis of the radio network

TSX24.3 telemetry station with built-in accumulator, 3 off expansion modules and radio with over-voltage protection.



Radio data transmission is reasonable in operation costs. Private radio networks ensure maximum level of independence and resistance to break

Communication module VCLX24C01 for packet retransmission in single frequency radio data networks.



Survey of services and products

Electronic equipment to order

Within the VAE holding, the firm Elok Opava is involved with the development and production of electronics. Their products are meant for use not only within the holding, but are also sold individually. Elok's products are exported mostly to Great Britain, the Netherlands, Russia, Poland, Kazakhstan, and Ukraine.

Elok specialize primarily in equipment for environments at risk from explosions, petrochemical and mining and industrial applications. The products

for petrochemical include an identification system based on proximity RFID chip cards with radio transmitted data, grounding equipment for automobile and railway tankers, and additive units for dose injecting gasoline.

For water management in particular, Elok provide TS telemetric outstations, programmable sources for powering radio stations, communications modules, signal converters, and lightening arrestors for protecting high-frequency radio stations.

Elok's specialty, however, is the development and production of prototypes of small and mid-size quantities, hence they able to provide solutions for orders on an individual basis. An example of such an approach was the work on the control system for a special windlass for reconstructing the smokestack at the Počerady electrical power plant; another, the electronic system for monitoring & controlling the consumption of heat in a flat complex using thermal tanks that was carried out in cooperation with British Gas.

- Furthermore, Elok produce operating units for Spa massage baths, drink dispenser machines, electrical equipment for mine locomotives, personal safety illumination tape, stainless steel boxes, boxes with high shielding, strong explosion-proof seals, and other products.

The company has surface mounted devices (SMD) technology, a machine workshop for producing strong seals, a testing centre for testing electromagnetic compatibility (EMC), as well as for hydraulic, magnetic, and climatic tests. Customers even make use of this well-equipped testing centre for testing and developing their own equipment. For producing electrical equipment for environments at risk from explosion, the company is certified in accordance with the ATEX directive of the European Union.

Flexibility and accessibility

Amal flame arresters are available for both end-of-line and in-line applications.



XGSM communication module is optimized for installation in the telemetry station.



VCL01M is intelligent power supply module with in-built accumulator. Output voltage and current limits are configurable from PC.



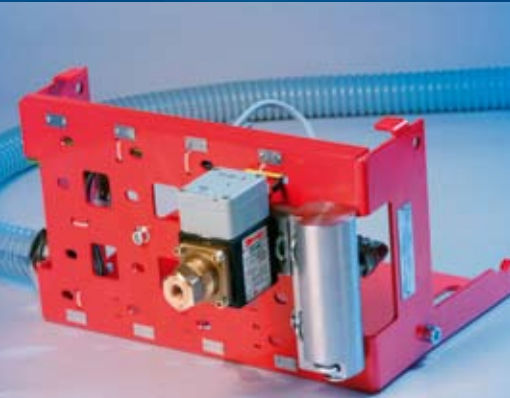
CF11 pulse/current converter is designed to transform pulse signal from flow meter or speed sensor into 4..20mA signal.



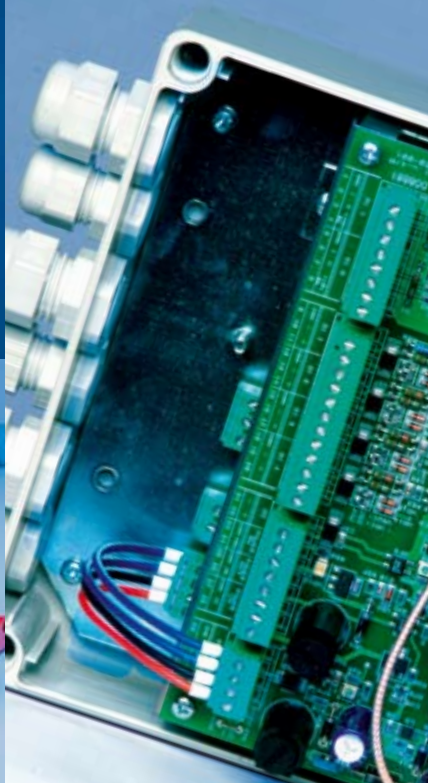
TSX24.1 is a compact telemetry station with GSM module and accumulator built-in.



Electro hydraulic (set-stop) valve type 210 for continuous control of product flow.



EVA5 additive dosing unit is suitable for injection of additives or colours into petrochemical products.



Detail of RTU terminal block.



ELBJ1 ensures over-voltage protection for radio antenna outlet. It is designed as coaxial feed-through.

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