

YASKAWA

AUTOMATION WORLD

From a producer of components to a supplier of systems.



Control technology



VIPA MICRO

With the MICRO PLC from VIPA Controls, VIPA is launching a completely new control concept. The MICRO PLC is not only small, compact, and has extremely fast communication, but it also takes the users into consideration.

Detachable connecting plugs that simplify the pre-wiring, and the connected installation, as well as the channel-accurate LEDs directly on each contact are just a few examples. A clear & modern design meets the latest technology and user friendly features in the MICROPLC.

VIPA 200V

This system is a very compact with a modular expandable system. It is designed for centralized and decentralized automation tasks.

With a central construction of up to a maximum of 32 modules directly on the CPU and up to 126 field bus slave modules, plus an additional 32 modules maximum per field bus slave

module, the 200V can be deployed with enormous flexibility. The module-size allows the deployment in almost any automation environment.

VIPA SLIO

VIPA sets a further milestone in the automation industry with the newly developed system SLIO.

SLIO combines high functionality and a clever mechanical concept in an extremely compact design. SLIO stands for slice input and output. SLIO is very compact and is exactly adapted to the demands of the application slice by slice.

Many interface modules are available for use as an IO system. EtherCAT, DeviceNet, CANopen, EtherNet/IP as well as MODBUS TCP are all available in addition to PROFINET and PROFIBUS.

VIPA 300S+

The CPUs with SPEED7 technology

VIPA 300S+ CPUs impress our customers and not only by their outstanding speed. By using the SPEED7 bus the reaction and signal processing were again considerably optimized.

The unique MemoryManagement

The memory expansion concept from VIPA Controls allows memory adjustment by simply exchanging the Micro MemoryCard without needing to change the CPU. For the protection of your know-how our worldwide acknowledged Advanced KnowHow-Protect is available. The attractive selection of already integrated communication interfaces, such as the standard integrated Ethernet/MPI and PtP interfaces, ensures comfort and flexibility in almost every situation.

Drive technology



Inverter

J1000

The compact inverter

- Extremely small
- Minimum effort for installation and programming
- Stall prevention for stable operation during load or voltage changes

V1000

Best inverter of its class

- Open-Loop control for asynchronous and permanent magnet motors
- Versatile deployment
- PLC functions in the inverter
- Also available in IP66 and without fans

A1000

Inverter with maximum performance

- Open-Loop control for asynchronous and permanent magnet motors
- Versatile deployment
- PLC functions in the inverter

GA700

Unlimited options

- Performance area from 0,55 W up to 630* kW (* under development)
- 200 V and 400 V
- Side-by-side assembly without interspaces
- Integrated accessories (brake resistance [up to 75 kW], EMV filter, line filter [22 kW and more] ...)
- Abbreviated set-up time thanks to assistance for commissioning
- Parameter management the PC or with Smartphone
- Control functionalities without PLC

Servo

Sigma-5 Servo family

Precise, scalable and highly dynamic

- Comprehensive selection of motor and amplifier power range
- 1,6 kHz range of the speed control circuit
- STO safety module SGDVS-OSA01A expandable
- Extremely high positioning accuracy of up to 10 nm through high-resolution encoder
- Fast and easy set up

Sigma-7 Servo family

Time saving, fast and reliable

- Comprehensive selection of motor and amplifier power range
- Saving through performance
- Safety function
- Highly efficient
- Highly accurate
- Impressive system performance
- Excellent reliability

Solution packages

SPRiPM solution IE4+

Extremely efficient drive package

- Compact and space saving
- Eco-friendly - exceeds the demands for efficiency IE4 in accordance with IEC/TS 60034-31
- Motor parameter in the frequency inverter already pre-installed
- Highly efficient for low operating costs
- Pays for itself in less than 2 years

Operating + Monitoring

Beginning with the small VIPA ecoPanels up to the large, high-performance VIPA PanelPCs VIPA Controls offers the entire HMI product range.



VIPA ecoPanels

- Pre-installed Movicon Runtime and Windows Embedded CE 6.0 operating system
- Efficient, durable, robust
- Remarkably fast
- Multi-lingual
- Access your ecoPanel via teleservice by means of VNC-Client software
- Protection class IP 65
- Display size: 4,3", 7,0", 10" and 15"

VIPA eco+Panels

- Processor clock frequency 667MHz in the 4,3" and 7" panels
- Operating system: Windows Embedded CE 6.0 Professional
- Otherwise identical with the ecoPanels
- Display sizes: 4,3", 7,0", 10" and 15"

VIPA professional Panels

- Integrated web server
- Easy data base communication
- Controllable from every PC
- High-performance processors
- Up to eight interfaces: RS232-, RS485-, RS422-, MPI-, PROFIBUS-DP slave, Ethernet RJ45-, USB-A- and USB-B interfaces (depending on the version)
- Particularly small mounting depth of only 37 up to 45 mm
- Deployable horizontally and vertically
- Unique and easy assembly
- Efficient, durable, and robust
- Protection class IP 65
- Display sizes: 5,7", 6,5", 8,4", 10,4" and 12,1"

VIPA PanelPCs

- Combination of industrial PC with the latest performance features and a Touch Panel
- Optimal display possibilities
- High performance in the smallest space
- The latest Intel Atom processor technology
- High display resolution up to Full-HD in the 21,5" panel
- Many interfaces for fully-functional PC operation
- Optional pre-installed Movicon-Runtime, or alternatively, customer programs also deployable
- Cooling without fans
- High-quality metal case
- Protection class IP 65
- Display sizes: 10,1", 15,6" and 21,5"

Accessories



The accessories from VIPA Controls allow and expand deployment of the respective systems and simplifies commissioning.

Teleservice modules

For the secure access to plants and machineries from all over the world. Web based configuration.

Ethernet switches

VIPA Controls offers unmanaged and managed Ethernet switches with high port density. These industrial switches have compact, space saving dimensions and are suitable for manifold applications.

PROFIBUS repeater

The advanced, flexible and robust PROFIBUS repeater has a micro processor which very often scans the

PROFIBUS bit and generates the signal on the other segment completely anew and transmits it (bit regeneration). They build up a barrier, so to speak, against electrical problems such as EMC, short-circuits.

samosPRO

Safety micro controller for monitoring and control of applications in manufacturing system engineering and plant construction - compact, fast and modular.

EasyConn plugs

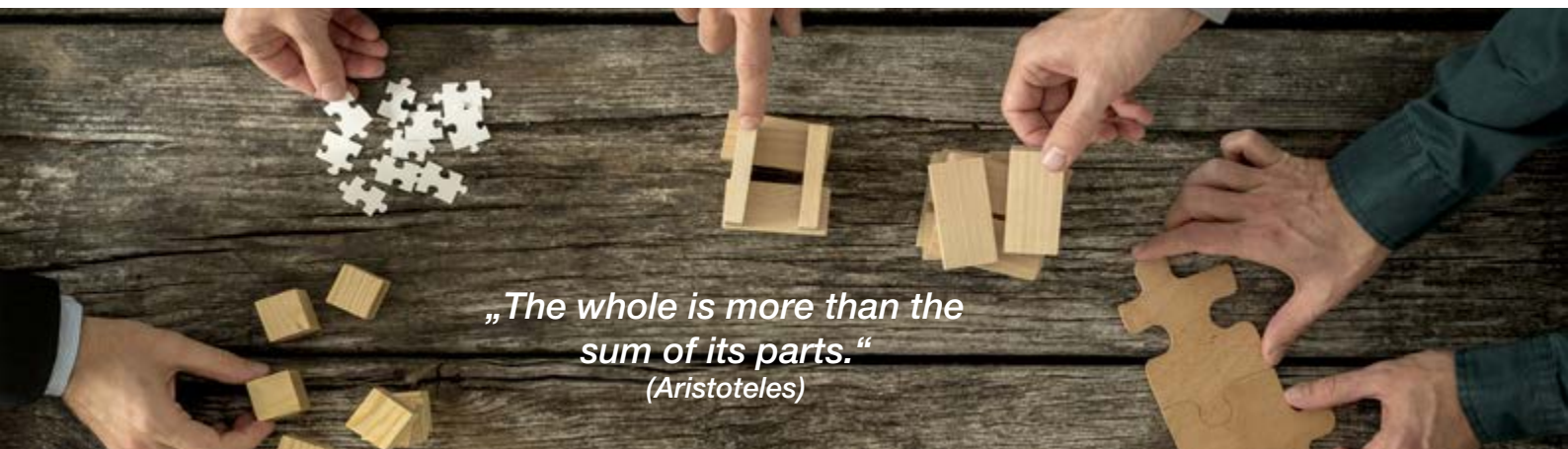
For the error free connection of PROFIBUS users. Visual connection control through integrated diagnosis LEDs.

PROFINET plugs

For the universal deployment in the office, in industry or in building cabling. Consisting of 2 parts allowing considerable reduction of installation effort.

Ready-to-use front plugs

Different cable lengths. For 20 and 40-pole connections of our 300S+ system and identically constructed parts from other manufacturers.



*„The whole is more than the
sum of its parts.“
(Aristoteles)*

Software



Movicon



We have the suitable software for your hardware, so that you can start right away.



Hardware configuration

- Simplified hardware configuration
- Clever Drag & Drop function
- Intelligent input assistance by means of tool tips



Networking

- Networking via PRO-FIBUS, PROFINET, EtherCAT and standard Ethernet
- The topology view remains unchanged - not depending on the bus protocol



Programming

- The tools of the SPEED7 Studio: IL, FBD and LAD
- The diagnosis is made by means of the module status and monitoring tables - even with history and trend display.



Visualization

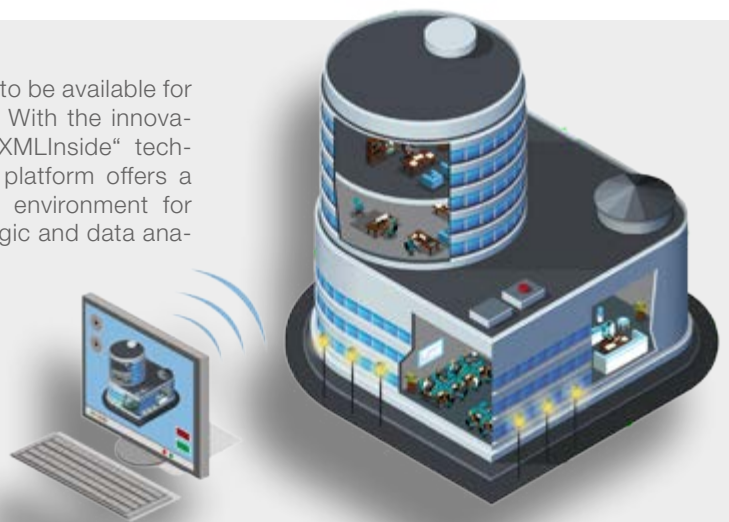
- Web based and vector oriented visualization
- Easy and site-independent access via panel, laptop, smartphone and tablet-PC

Movicon

With more than 80,000 installed applications worldwide Movicon is one of the market leaders in the field of operating and monitoring. A platform for development for all VIPA Panels whether large or small. Movicon is the key for easy use.

Movicon is the safe and reliable software solution for all who develop and operate visualization applications and

whose data also has to be available for mobile technologies. With the innovative and exclusive „XMLInside“ technology the Movicon platform offers a unique development environment for HMI, SCADA, SoftLogic and data analysis.



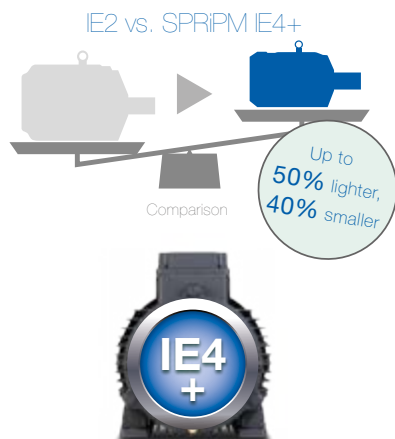
Total Solution



Together with YASKAWA, VIPA Controls offers customized solutions - all from a single source.

SPRiPM package - The solution

The SPRiPM package is a Plug-and-play combination existing of a frequency inverter and a permanent magnet motor that exceeds the IE4 efficiency requirements and guarantees a first-class efficiency, even under partial load conditions. With this SPRiPM opens up new potentials for energy saving at the pumps, ventilations or other torque applications that are still using the usual IE1 and IE2 motors.



MotoLogix

Control software for robots

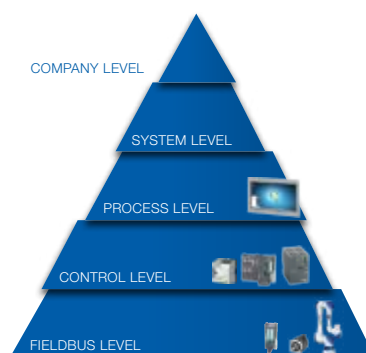


MotoLogix allows the control of up to 4 robots with a single PLC. It offers the possibility of a flexible setup of robot systems which can be adjusted to customer requirements and optimally integrated into a PLC and HMI environment. MotoLogix has a PLC library with function blocks and visualization templates for your HMI.

Energy Management

Energy management in robot applications.

Energy saving now concerns everyone. By using the energy managements from VIPA Controls you are always kept informed about the effective energy consumption of your applications and you can save up to 40% in energy. Our HMIs keep you up-to-date whether local or worldwide.



VIPA – This is who we are



250 EMPLOYEES

40,000,000 EUR TURNOVER

over **30** YEARS OF EXPERIENCE

800 DIFFERENT ARTICLES

250,000 INSTALLED CPUs

YASKAWA

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