

JUMO variTRON – Automation System

System overview

Description

The central processing unit JUMO variTRON 500 along with the proven input and output modules (incl. controller module) form a complete system. In case of the central processing units JUMO variTRON 300 and variTRON 500 touch a router module is additionally required (primary: router module 1-port).

The central processing unit manages all configuration and parameter data of the complete system and provides a PLC acc. to IEC 61131-3 (CODESYS V3.5; as extra code). The PLC can be activated in different versions:

- CODESYS runtime system
- CODESYS runtime system incl. Remote TargetVisu
- CODESYS runtime system incl. WebVisu
- CODESYS runtime system incl. Remote TargetVisu and WebVisu

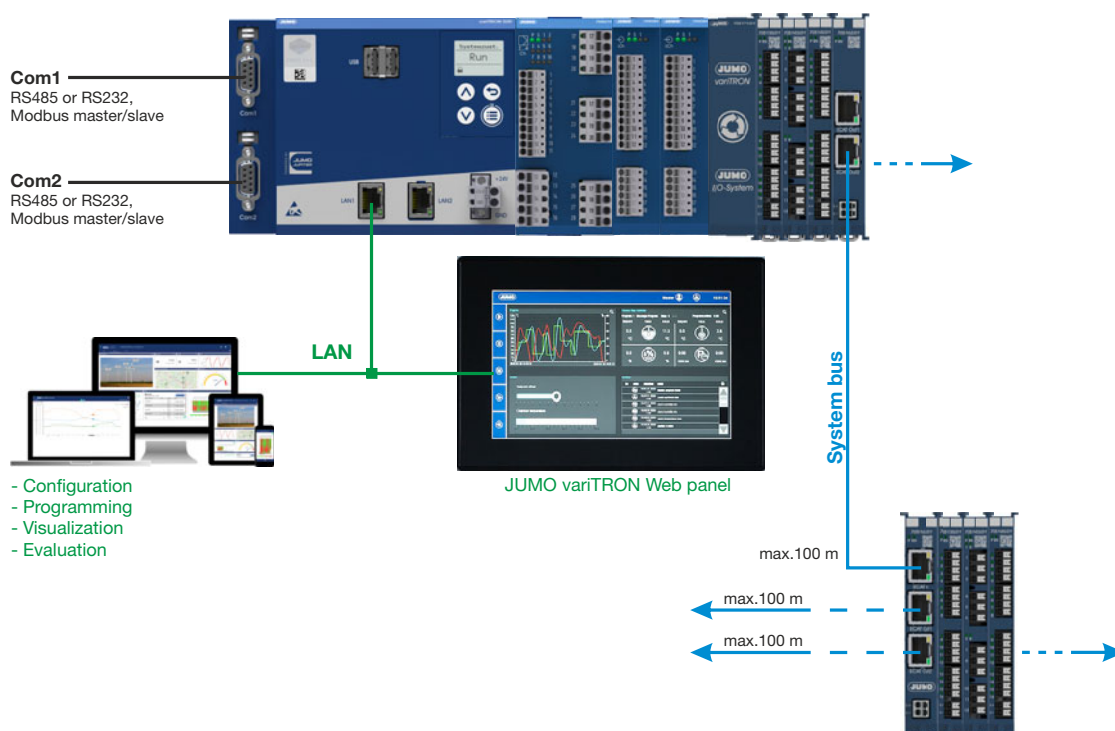
For visualization, commercially available panels are used which support CODESYS Remote TargetVisu or WebVisu functionality. The visualization is also possible via web browser. Visualizations have to be implemented with CODESYS resources.

A convenient setup program is used for configuration. JUMO standard functions for CODESYS are provided in libraries (as of system version 6) and can be individually integrated into the customer application.

Features

- Quick wiring of operating voltage and system bus provided by simple module connection principle
- Flexible connection technology due to removable terminal strips with Push-In technology
- Modular device and function concept
- Web panels (705070) with capacitive or resistive touch screen in different sizes
- Universal analog inputs
- Reliable, independent PID controllers with autotuning function
- Integrated PLC acc. to IEC 61 131-3 (option)

System with JUMO variTRON 500



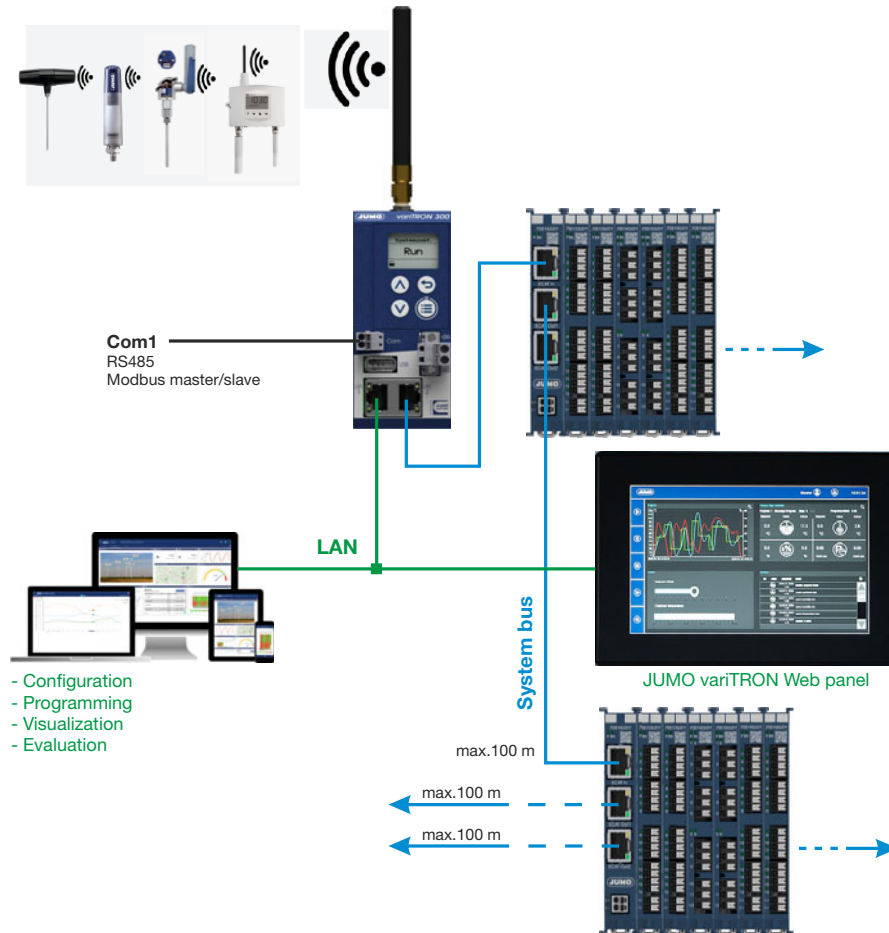
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System with JUMO variTRON 300



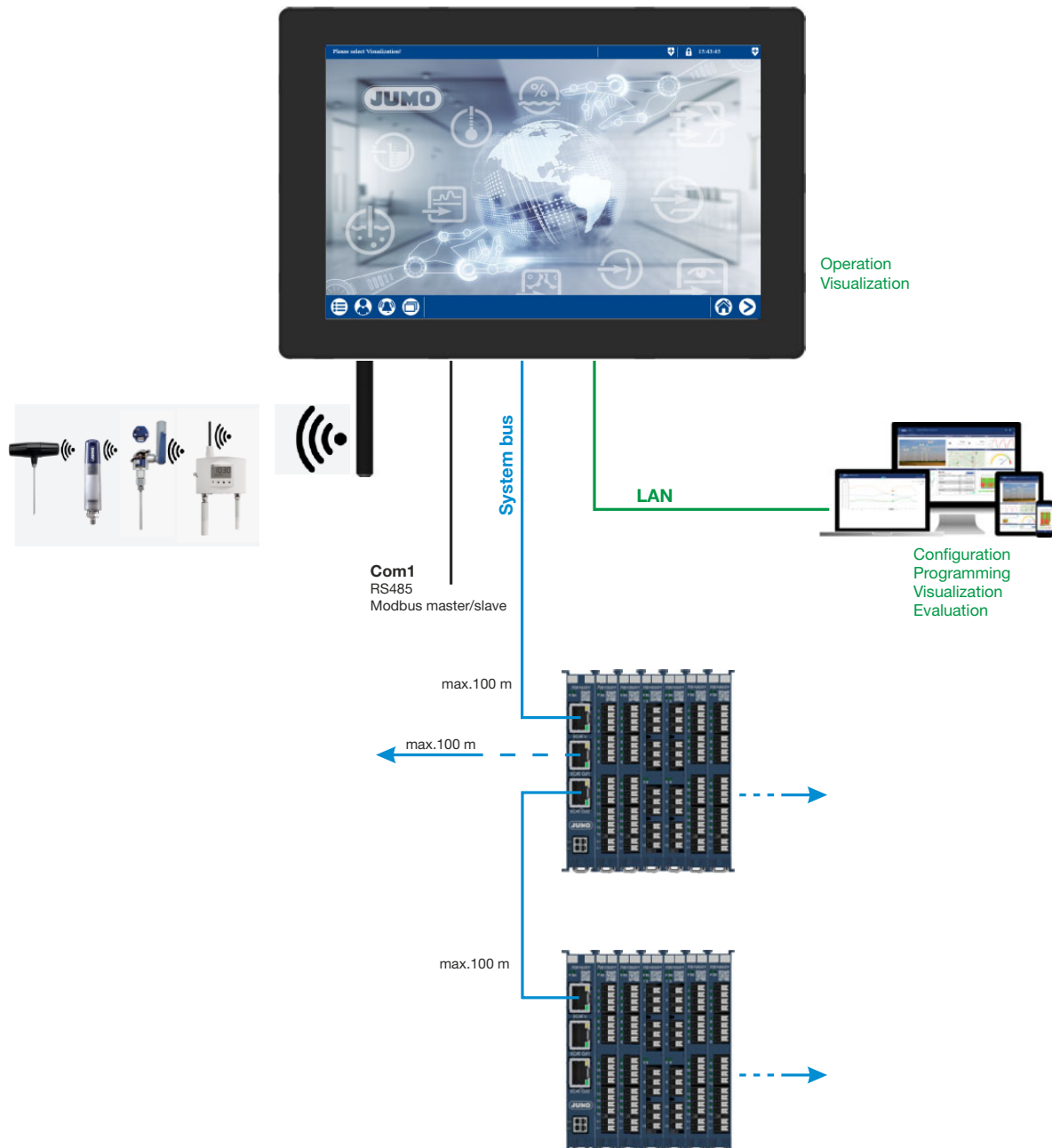
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System with JUMO variTRON 500 touch



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Central processing unit

JUMO variTRON 500 – 705002

CPU

- Quad Core CPU 800 MHz
- RAM 1024 MB, battery-buffered SRAM (for retain data)
- eMMC 8 GB (flexible allocation between system data and application data)
- Battery-buffered real-time clock
- Process map for all connected input or output modules (including controller modules)
- Display and keys to indicate the system status
- Recorder App (via web)
- OPC UA Server (in conjunction with PLC)
- Program generator incl. JUMO variTRON Program App (system version 7 and above)
- Two fieldbus interfaces (RS232 or RS485; system version 3 and above)
- PROFINET IO-Controller/Device (in conjunction with PLC, Device from system version 7 and above)
- Data evaluation with JUMO smartWARE Evaluation (system version 6 and above)
- Plug and Play when replacing input or output modules
- The central processing unit operates at a voltage supply of DC 24 V and supplies the connected input or output modules and, if necessary, the router module 705041
- Dimensions (W × H × D): 135 mm × 101 mm × 101.5 mm (without connection elements)



For further information: Refer to data sheet 705002

JUMO variTRON 300 – 705003

CPU

- Single Core CPU 792 MHz
- RAM 512 MB, battery-buffered SRAM (synchronization of retain data in CODESYS application possible)
- eMMC 2 GB (flexible allocation between system data and application data)
- Battery-backed real-time clock
- Process mapping for all connected input/output modules (including controller modules)
- Display and keys to display the system status
- USB host interface
- OPC UA server (in conjunction with PLC)
- Field bus interface (RS485)
- Wireless interface (receiver for JUMO Wtrans transmitters; as of system version 5)
- PROFINET IO controller (in conjunction with PLC)
- Data evaluation with JUMO smartWARE Evaluation (as of system version 6)
- Plug and Play when replacing input/output modules
- The central processing unit operates at a voltage supply of DC 24 V
- A router module is required to connect input/output modules (primary: router module 1-port, 705043)
- Dimensions (W × H × D): 45 mm × 101 mm × 101.5 mm (without connection elements)



For further information: Refer to data sheet 705003

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**JUMO variTRON 500 touch – 705004****CPU**

- Quad Core CPU 800 MHz
- RAM 1024 MB, battery-buffered SRAM (synchronization of retain data in CODESYS application)
- eMMC 8 GB (flexible allocation between system data and application data)
- Battery-buffered real-time clock
- Process map for all connected input or output modules (including controller modules)
- TFT color screen for operation and visualization (with CODESYS Remote TargetVisu, depending on the application)
- Customer-specific boot logo
- Variable screen orientation (system version 8.2 and above)
- Recorder App (via integrated touch panel and web)
- OPC UA Server (in conjunction with PLC)
- Program generator incl. JUMO variTRON Program App (system version 7 and above)
- Fieldbus interface (RS485)
- Wireless interface (receiver for JUMO Wtrans transmitters)
- PROFINET IO-Controller/Device (in conjunction with PLC, Device from system version 8.2 and above)
- Data evaluation with JUMO smartWARE Evaluation
- Plug and Play when replacing input or output modules
- The central processing unit operates at a voltage supply of DC 24 V
- A router module is required to connect input or output modules (primarily: 1-port router module, 705043)
- Optional DIN rail for mounting router module and input or output modules on the back cover of the central processing unit
- Four device versions (screen diagonal 7" or 10.1", plastic housing with front made from plastic or stainless steel)

**Type 705004/2****Type 705004/3**

For further information: Refer to data sheet 705004

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Input/output modules

Series 7050xx

Multichannel controller module – 705010



- 2-channel PID controller with relay output or logic output to control solid-state relays
- Up to 4 PID controller channels can be activated (cascadable)
- 2 universal analog inputs, 2 digital inputs (DC 0/24 V) and 2 digital outputs (relay or logic DC 0/15 V)
- Supported measuring elements: Thermocouples, RTD temperature probes, resistance transmitters, resistance/potentiometers, or standard signals (current or voltage)
- The analog inputs are galvanically isolated from each other.
- 3 expansion slots for expansion to up to 4 universal analog inputs, 8 digital inputs, 3 analog outputs, or 8 digital outputs
- Supported controller types: Two-state controller, three-state controller, modulating controller, continuous controller, or continuous controller with integrated actuator controller
- Customer-specific linearization possible by using a formula
- Limit value monitoring function
- 4 formulae for math and logic functions (option)
- 1 counter input up to 10 kHz
- The module operates independently (configurable) which means the control task is carried out even if the central processing unit or the higherranking system malfunctions
- Temperature regulator (TR) acc. to DIN EN 14597 (option)
- If the controller is replaced during service work the new controller (identical type) is automatically configured
- Dimensions (W × H × D): 45 mm × 103.6 mm × 101.5 mm (without connection elements)



For further information: Refer to data sheet 705010

Relay module 4-channel – 705015



- 4 relay outputs controlled via the system bus by digital signals
- Each relay is equipped with a changeover contact AC 230 V / 3 A
- Separate terminal strip per relay output
- Automatic configuration after the module insert has been exchanged during service work
- Dimensions (W × H × D): 22.5 mm × 103.6 mm × 101.5 mm (without connection elements)



For further information: Refer to data sheet 705015

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Analog input module 4-channel – 705020



- 4 universal analog inputs
- Supported measuring elements: Thermocouples, RTD temperature probes, resistance transmitters, resistance/potentiometers, or standard signals (current or voltage)
- The analog inputs are galvanically isolated from each other
- Customer-specific linearization possible by using a formula or up to 45 pairs of values
- Limit value monitoring function
- A digital input (DC 0/24 V) is additionally provided
- Automatic configuration after the module insert has been exchanged during service work
- Dimensions (W × H × D): 22.5 mm × 103.6 mm × 101.5 mm (without connection elements)



For further information: Refer to data sheet 705020

Analog input module 8-channel – 705021



- 8 analog inputs for RTD temperature probes Pt100, Pt500, or Pt1000 in 2-wire circuit
- The analog inputs are not galvanically isolated from each other
- Limit value monitoring function
- A digital input (DC 0/24 V) is additionally provided
- Automatic configuration after the module insert has been exchanged during service work
- Dimensions (W × H × D): 22.5 mm × 103.6 mm × 101.5 mm (without connection elements)



For further information: Refer to data sheet 705021

Analog output module 4-channel – 705025



- 4 separately configurable analog outputs 0(2) to 10 V or 0(4) to 20 mA
- Analog outputs galvanically isolated from each other
- Configurable behavior in case of an error, e.g. acc. to NAMUR recommendation NE 43
- Automatic configuration after the module insert has been exchanged during service work
- Dimensions (W × H × D): 22.5 mm × 103.6 mm × 101.5 mm (without connection elements)



For further information: Refer to data sheet 705025

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Digital input/output module 12-channel – 705030

I/O
12

- 12 channels, that can each be configured as digital input (DC 0/24 V) or digital output (DC 0/24 V, 500 mA)
- Supply of external voltage through terminal at the front
- Automatic configuration after the module insert has been exchanged during service work
- Dimensions (W × H × D): 22.5 mm × 103.6 mm × 101.5 mm (without connection elements)



For further information: Refer to data sheet 705030

Digital input/output module 32-channel – 705031

I/O
32

- Compatible with JUMO variTRON as of system version 3
- 17 digital outputs (DC 0/24 V, 500 mA)
- Up to 15 additional digital inputs (DC 0/24 V) or digital outputs (DC 0/24 V, 500 mA) as options
- Supply of external voltage through terminal at the front
- Automatic configuration after the module insert has been exchanged during service work
- Dimensions (W × H × D): 22.5 mm × 103.6 mm × 101.5 mm (without connection elements)



For further information: Refer to data sheet 705031

Thyristor power controller TYA 20x – 70906x



- Various device versions for single-phase operation, for operation in a three-phase economy circuit, and for a complete three-phase operation
- Integration into the automation system via EtherCAT or PROFINET
- Access to various process values of the power controller



For further information: Refer to data sheet 709061, 709062, 709063

Series 7051xx (JUMO I/O system)

16-channel digital input module – 705135

I/O
16

- Terminal strips with PUSH IN technology
- Quick wiring of operating voltage and system bus by simply plugging the modules together
- Mixed operation with modules from the 7050xx series
- Module cycle time configurable via the central processing unit
- Two LEDs for displaying the module status (Power/Run)
- One LED per input for displaying the signal state (High/Low)
- Increased vibration and shock resistance due to optional connector bars



For further information: Refer to data sheet 705135

4-channel digital output module – 705143

I/O
4

- Terminal strips with PUSH IN technology
- Quick wiring of operating voltage and system bus by simply plugging the modules together
- Mixed operation with modules from the 7050xx series
- Cycle time of the module configurable via the central processing unit
- Two LEDs for displaying the module status (Power/Run)
- One LED per output for displaying the position of the relay contact
- Increased vibration and shock resistance due to optional connector bars



For further information: Refer to data sheet 705143

16-channel digital output module – 705145

I/O
16

- Terminal strips with PUSH IN technology
- Quick wiring of operating voltage and system bus by simply plugging the modules together
- Mixed operation with modules from the 7050xx series
- Module cycle time configurable via the central processing unit
- Two LEDs for displaying the module status (Power/Run)
- One LED per output for displaying the signal state (High/Low)
- Increased vibration and shock resistance due to optional connector bars



For further information: Refer to data sheet 705145

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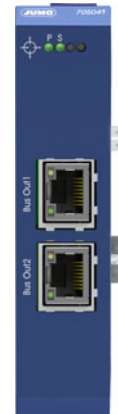
Communication modules

Series 7050xx

Router module 2-port – 705041



- Compatible with JUMO variTRON as of system version 3
- Decentralized module assignment supported
- Arrangement on DIN rail (lateral system bus input and output)
- 2 RJ45 system bus connections at the front (2 × Bus Out), galvanically isolated
- Up to 100 m distance between 2 router modules
- Up to 30 router modules are possible
- No configuration of the router module required
- Dimensions (W × H × D): 22.5 mm × 103.6 mm × 101.5 mm (without connection elements)



For further information: Refer to data sheet 705041

Router module 3-port – 705042



- Compatible with JUMO variTRON as of system version 3
- Decentralized module assignment supported
- First module on an additional DIN rail for connecting further modules
- 3 RJ45 system bus connections at the front (1 × Bus In, 2 × Bus Out), galvanically isolated
- Up to 100 m distance between 2 router modules
- Up to 30 router modules are possible
- The router module operates at a voltage supply of DC 24 V and supplies the connected input/output modules
- No configuration of the router module required
- For applications such as Hot Connect, for example, the address of the router module can be set by rotary coding switches
- Dimensions (W × H × D): 22.5 mm × 103.6 mm × 101.5 mm (without connection elements)



For further information: Refer to data sheet 705042

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**Router module 1-port – 705043**

- Compatible with JUMO variTRON as of system version 4
- Connects the central processing units variTRON 300 and variTRON 500 touch with the modules
- Decentralized module assignment also supported as an alternative
- First module on an additional DIN rail for connecting further modules
- Galvanic isolation of the system bus connection
- Up to 100 m distance between 2 router modules
- Up to 30 router modules are possible
- The router module operates at a voltage supply of DC 24 V and supplies the connected input/output modules
- No configuration of the router module required
- Dimensions (W × H × D): 22.5 mm × 101 mm × 23.9 mm (without connection elements)



For further information: Refer to data sheet 705043

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Series 7051xx (JUMO I/O system)

2-channel communication module – 705162



- Arrangement on DIN rail (lateral system bus input and output)
- System bus expansion via RJ45 sockets on the front (2 × EtherCAT Out)
- Decentralized module assignment supported up to distance of 100 m
- Supply of operating voltage on the front for connected modules
- Terminal strip with PUSH IN technology
- Two LEDs for displaying the module status (Power/Run)
- Increased vibration and shock resistance due to optional connector bars



For further information: Refer to data sheet 705162

3-channel communication module – 705163



- First module on an additional DIN rail for connecting further modules
- System bus expansion via RJ45 sockets on the front (1 × EtherCAT In, 2 × EtherCAT Out)
- Decentralized module assignment supported up to distance of 100 m
- Supply of operating voltage on the front
- Terminal strip with PUSH IN technology
- Two LEDs for displaying the module status (Power/Run)
- Increased vibration and shock resistance due to optional connector bars

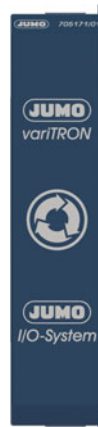


For further information: Refer to data sheet 705163

System module – 705171



- Adapter module for mixed operation with modules from the 7050xx series
- Arrangement on DIN rail (side plug connectors for system bus and operating voltage)
- Connection of the modules due to easy plugging together
- Increased vibration and shock resistance due to optional connector bars



For further information: Refer to data sheet 705171

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Panels

JUMO variTRON web panels – 705070

HMI

Various versions:

- TFT color screen
- Up to 16 million colours
- Touch operation, resistive or capacitive
- Multi-touch operation (capacitive), also with gloves
- Screen sizes (diagonal) from 10.9 cm (4.3") to 54.6 cm (21.5")
- Screen resolutions from 480 × 272 to 1920 × 1080
- Panel mounting or variable fastening
- Connection to the central processing unit via Ethernet interface
- Voltage supply DC 24 V or PoE
- Versions for food industry



For further information: Refer to data sheet 705070

Power supply units

Power supply units 24 V – 705090



- Voltage supply AC 100 to 240 V
- 150 % peak load capability (for typical 4 s)
- Minimum current inrush
- Floating DC-OK relay contact
- Efficiency up to 93.5 %
- Active power factor correction (PFC; for 705090/05-33 and 705090/10-33)
- Active filter against mains transients
- Quick connection due to spring terminals
- Dimensions (W × H × D):
 705090/03-33: 32 mm × 130.5 mm × 106.5 mm
 705090/05-33: 40 mm × 130.5 mm × 121.5 mm
 705090/10-33: 60 mm × 130.5 mm × 121.5 mm

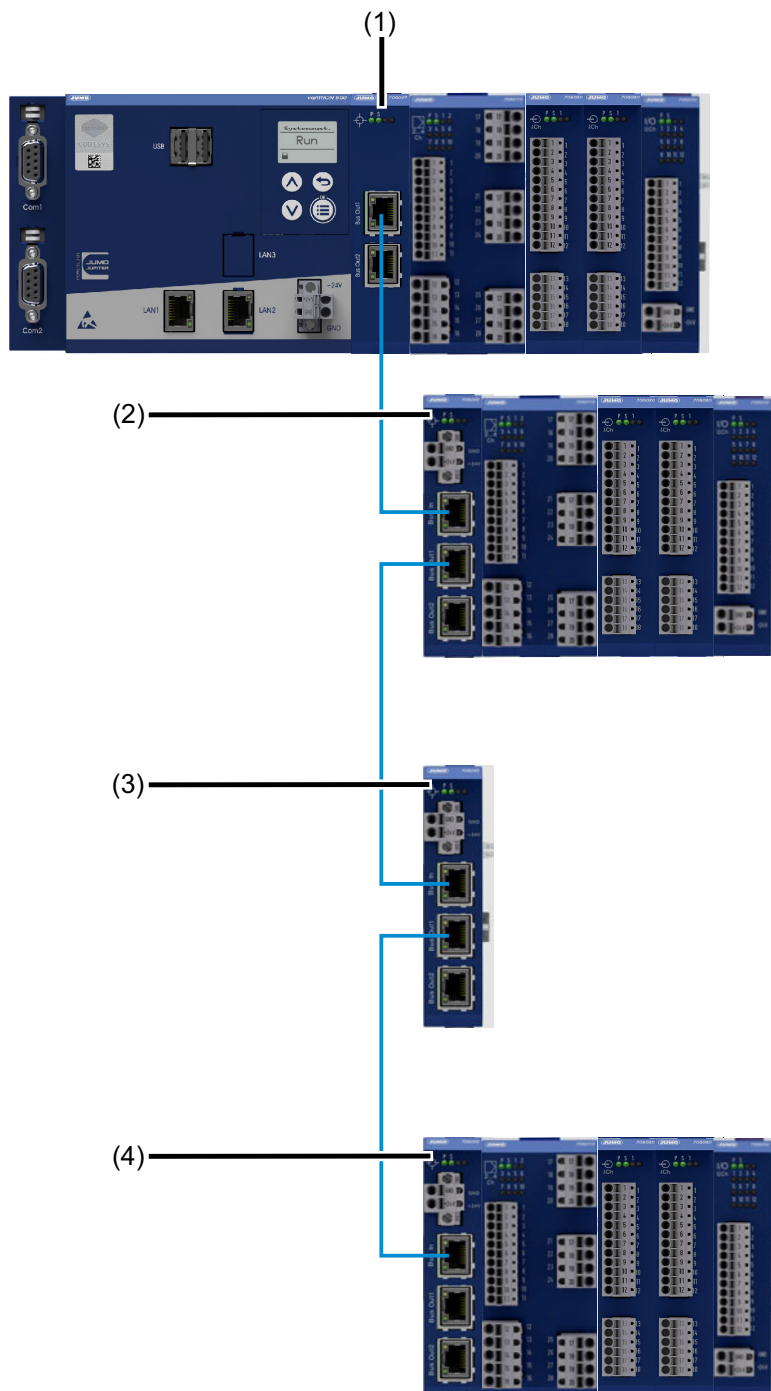


For further information: Refer to data sheet 705090

Use of the communication modules

Router modules 2-port and 3-port

Connection example



- 1 Router module 2-port (705041), attached to JUMO variTRON 500 central processing unit (705002)
- 2 Router module 3-port (705042) with downstream modules
- 3 Router module 3-port (705042) to increase the range
- 4 Router module 3-port (705042) with downstream modules

The router module 2-port (705041) is primarily used on the same DIN rail as the variTRON 500 central processing unit (705002) and enables system bus networking with standard network cables (CAT5, S/FTP). The position of the router module 2-port on the DIN rail is freely selectable.

The router module 3-port (705042) or the router module 1-port (705043) is always used as the first module on a separate DIN rail and is designed for system expansion with additional modules. Both router modules can also be used to increase the system bus range.

The router module 2-port can also be used together with the router module 1-port or the router module 3-port for system expansion.

System bus interconnection is only possible with the router modules of the JUMO variTRON system (closed system); conventional Ethernet switch technology cannot be used.

In the illustrated connection example, the voltage supply of the central processing unit and the modules is not shown (terminals +24 V and GND).

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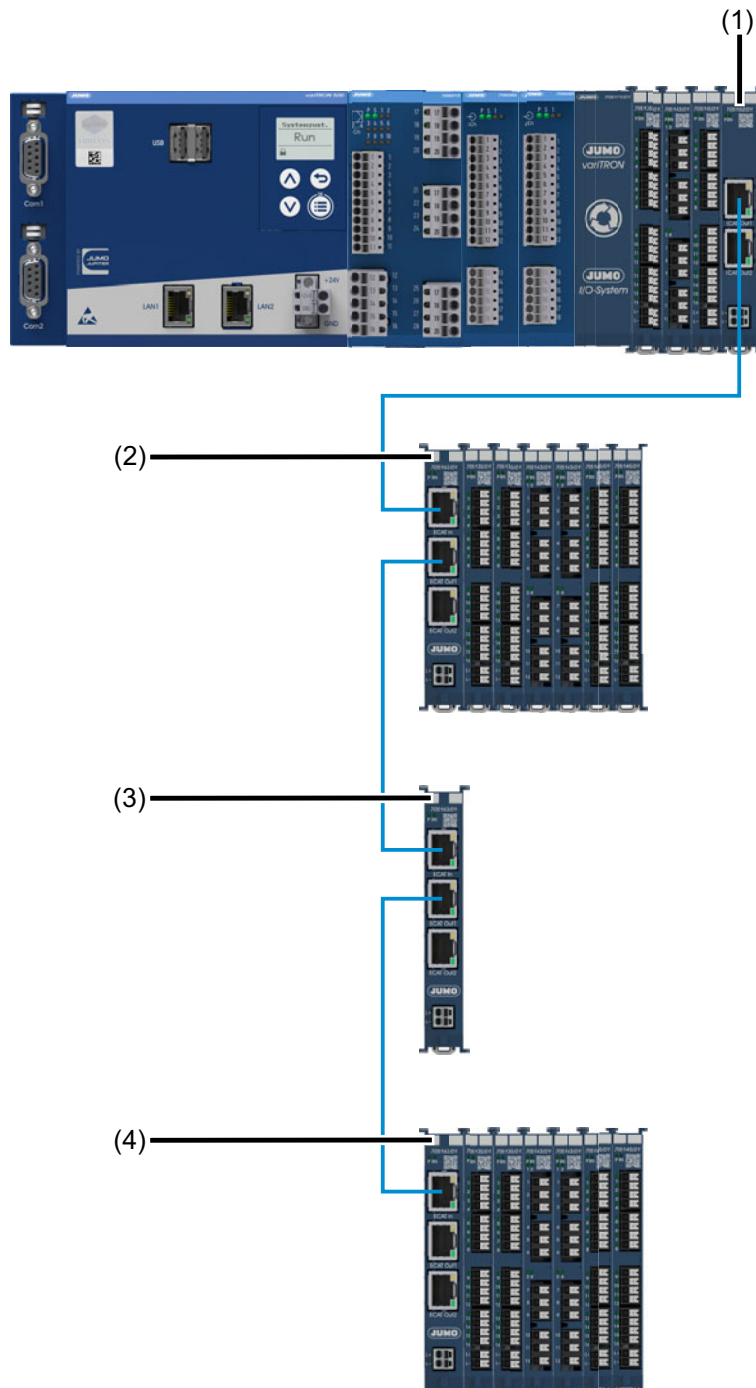
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2- and 3-channel communication modules

Connection example



The 2-channel communication module (705062) is primarily used on the same DIN rail as the variTRON 500 central processing unit (705002) and enables system bus networking with standard network cables (CAT5, S/FTP). Any position can be selected for the 2-channel communication module (705062) on the DIN rail.

The 3-channel communication module (705063) is always used as the first module on a separate DIN rail and is designed for system expansion with additional modules. The router module can also be used to increase the system bus range.

The 2-channel communication module (705062) can also be used together with the 3-channel communication module (705063) for system expansion.

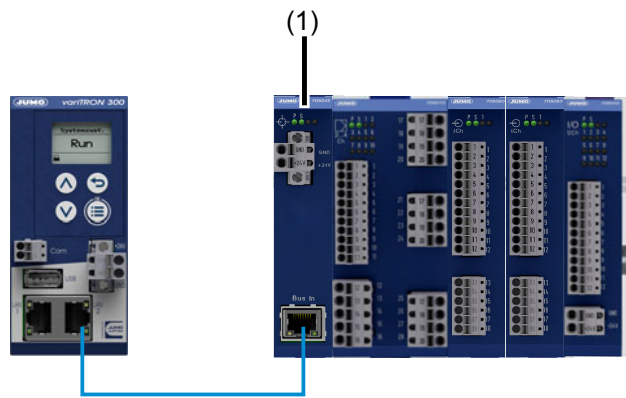
System bus interconnection is only possible with the communication modules of the JUMO variTRON system (closed system); conventional Ethernet switch technology cannot be used.

In the illustrated connection example, the voltage supply of the central processing unit and the modules is not shown (terminals +24V and GND).

- 1 2-channel communication channel (705062), attached to JUMO variTRON 500 central processing unit (705002) with downstream modules
- 2 3-channel communication channel (705063) with downstream modules
- 3 3-channel communication module (705063) for increasing the range
- 4 3-channel communication channel (705063) with downstream modules

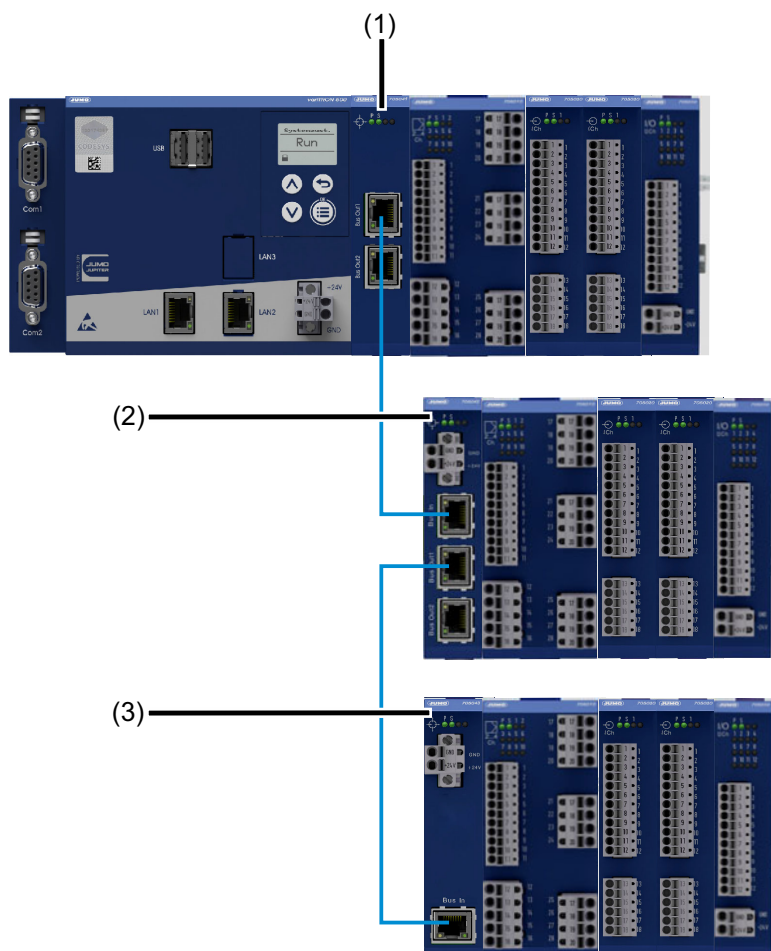
Router module 1-port

Connection example 1



- 1 Router module 1-port (705043), connected to JUMO variTRON 300 central processing unit (705003)

Connection example 2



- 1 Router module 2-port (705041), attached to JUMO variTRON 500 central processing unit (705002)
- 2 Router module 3-port (705042) with downstream modules
- 3 Router module 1-port (705043) with downstream modules

The router module 1-port (705043) is mounted on a DIN rail and provides the lateral connections of the system bus and power supply. It is primarily used to connect the input and output modules of the JUMO variTRON automation system to a JUMO variTRON 300 central processing unit (705003), which itself has no side connections (see connection example 1).

The router module 1-port is also used together with the new JUMO variTRON 500 touch central processing unit (705004) to connect the modules to the system bus and power supply.

The central processing unit is connected to the router module using a standard network cable (CAT5, S/FTP). The voltage for the router module as well as the connected input and output modules is supplied at the router module. That way, the central processing unit and router module can also be mounted on different DIN rails (cable length max. 100 m).

In addition, the router module 1-port can also be used for decentralized arrangement of further modules on an additional DIN rail. For this purpose, it is connected to a router module 2-port (705041) or a router module 3-port (705042) of the same system (see connection example 2).

System bus interconnection is only possible with the router modules of the JUMO variTRON system (closed system); conventional Ethernet switch technology cannot be used.

In the illustrated connection example, the voltage supply of the central processing unit and the modules is not shown (terminals +24V and GND).

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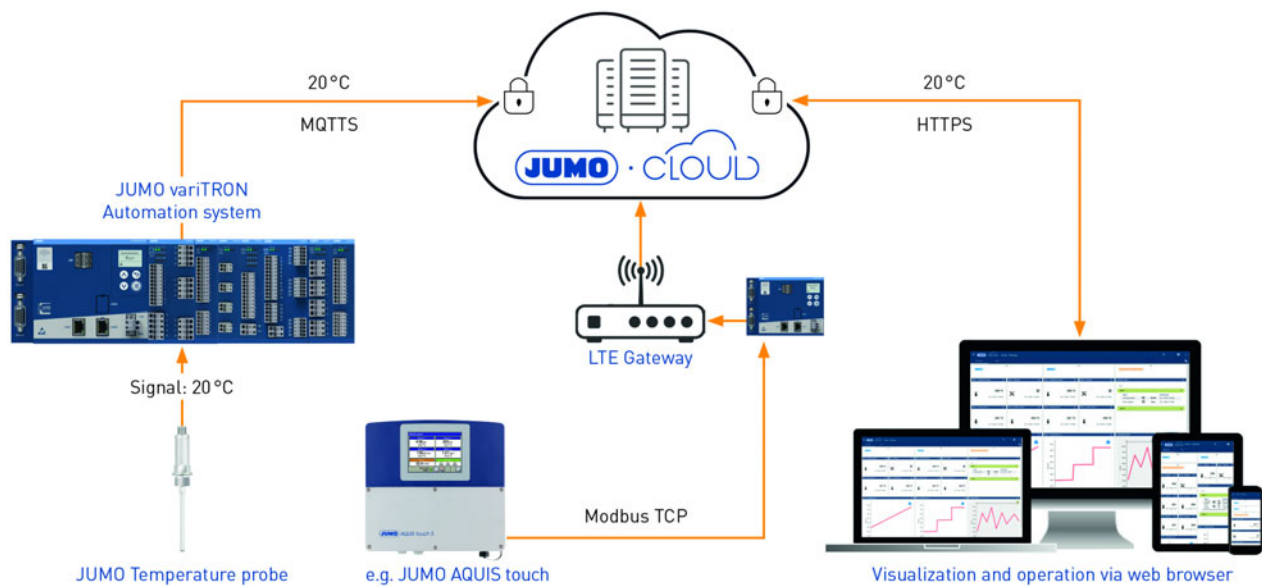
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User software

JUMO Cloud

The IoT platform for process visualization as well as data acquisition, evaluation, and archiving enables worldwide access to measurement data using common web browsers. The JUMO Cloud is characterized by a high degree of security as well as valuable visualization, alarm, and planning functions.



Further information on the JUMO Cloud:

qr-en-cloud.jumo.info

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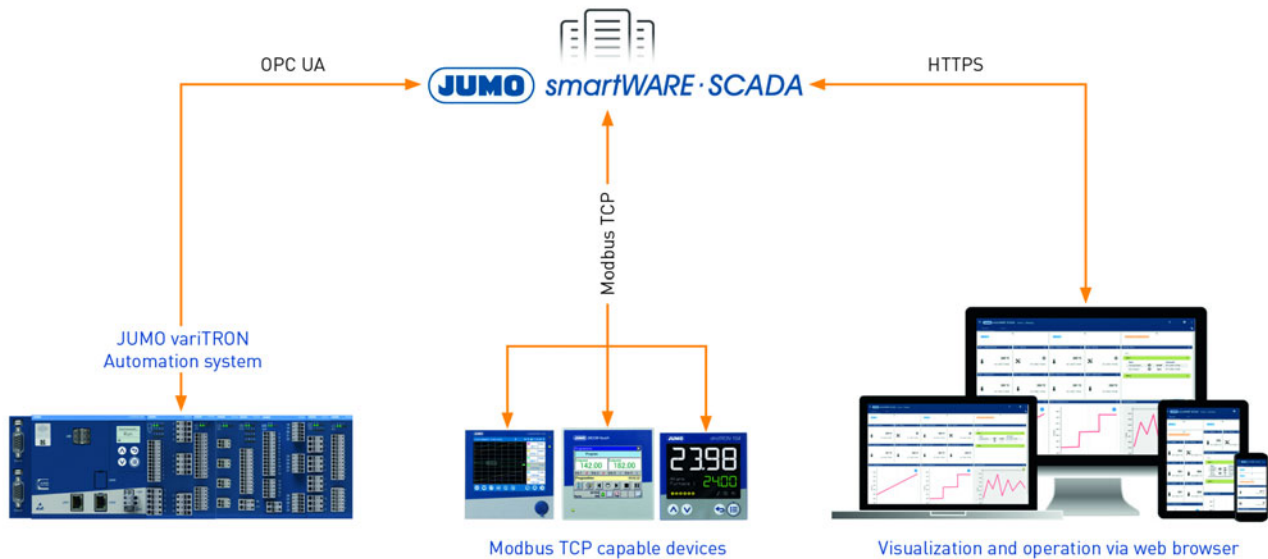
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**JUMO smartWARE SCADA**

The JUMO smartWARE SCADA software provides easy access to measurement data using conventional web browsers. It offers functions for process visualization as well as for evaluation of the acquired data. The software also supports manufacturing and work processes with valuable visualization, alarm, and planning functions.



Further information on the JUMO smartWARE SCADA software:

qr-en-scada.jumo.info

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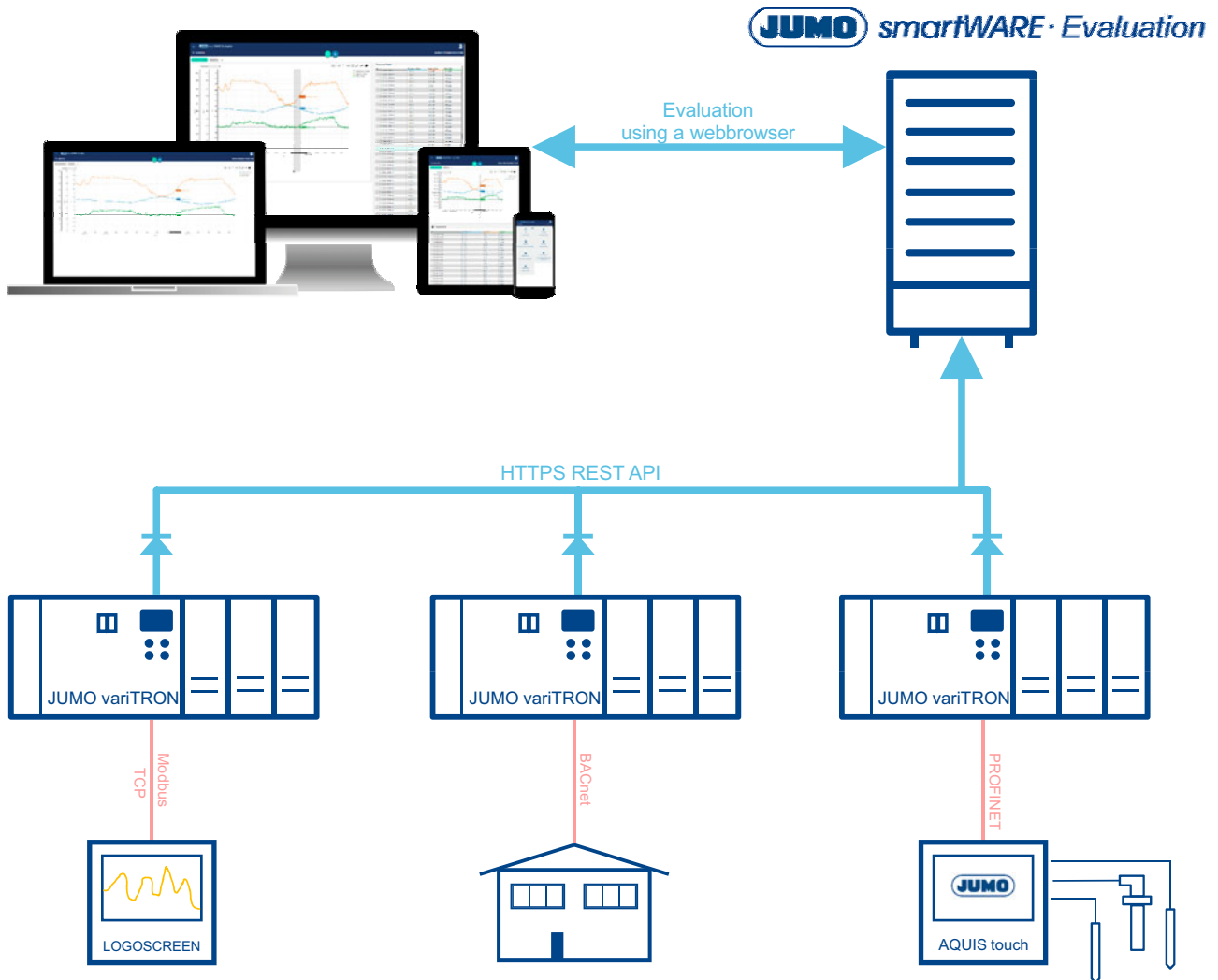
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JUMO smartWARE Evaluation

JUMO smartWARE Evaluation is intended for evaluating and visualizing process data from the JUMO variTRON system. The process data can be evaluated in customizable dashboards based on time or batch and transferred into reports (e.g. PDF, Excel®, CSV).



Further information on the JUMO smartWARE Evaluation software:

qr-en-evaluation.jumo.info

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**JUMO variTRON Program App**

The browser-based software solution JUMO variTRON Program App enables intuitive creation and editing of process technology programs and recipes on the JUMO variTRON 500 and the JUMO variTRON 500 touch via web access. As a result, plant manufacturers can define process steps and then link them into a program using the graphical editor. The plant user can control the program sequence via a connected web interface.



Further information about the JUMO variTRON Program App software:

qr-en-program.jumo.info

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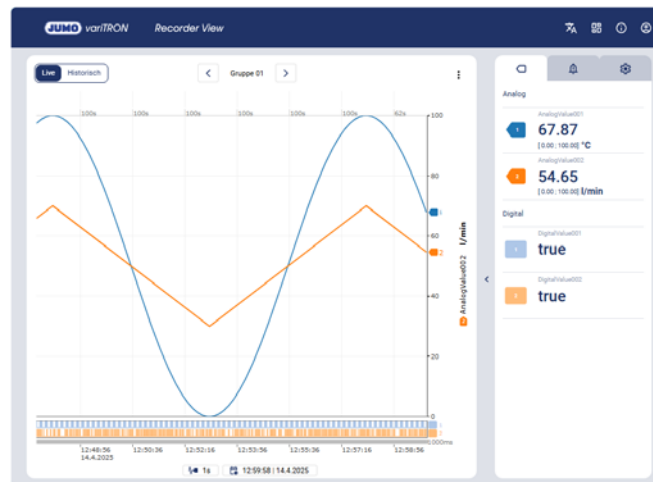
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Recorder app

Process data can be recorded and visualized using the recorder app.

The JUMO variTRON 500 central processing unit has a recorder app via the web.



The JUMO variTRON 500 touch central processing unit has a recorder app via the integrated touch panel as part of the hybrid UI. The recorder app can also be used via the web.

Hybrid UI

The hybrid UI (user interface) is a combination of firmware and CODESYS visualization in one device. The hybrid UI makes operation easier and increases user-friendliness.



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System versions

A system version consists of individual components from the areas of device software, drivers and templates, and JUMO smartWARE products. By enhancing these components, the automation solutions of JUMO are continuously expanded. The enhancements are realized within the scope of new system versions (expansion stages).

Version compatibility

The following overview tables show which versions of the individual components within a system version are compatible.

JUMO variTRON 500 – 705002

Device software and development environment

System version	Firmware	CODESYS Runtime	CODESYS IDE	
5	388.5.0.0.32 and above	V3.5 SP16 patch 3	V3.5 SP16 patch 3	
6	388.6.0.0.36 and above	V3.5 SP16 patch 3	V3.5 SP16 patch 3	
7.0	388.7.0.0.26 and above	V3.5 SP17 patch 3	V3.5 SP17 patch 3	
7.1	388.7.1.0.4 and above	V3.5 SP17 patch 3	V3.5 SP17 patch 3	
8.0	388.8.0.0.44 and above	V3.5 SP17 patch 3	V3.5 SP17 patch 3	
8.1	388.8.1.0.6 and above	V3.5 SP17 patch 3	V3.5 SP17 patch 3	
8.2	388.8.2.0.23 and above	V3.5 SP17 patch 4	V3.5 SP19 patch 2	
8.3	388.8.3.0.3 and above	V3.5 SP17 patch 4	V3.5 SP19 patch 2	
8.4	388.8.4.0.3 and above	V3.5 SP17 patch 4	V3.5 SP19 patch 2	
9	388.9.0.0.96 and above	V3.5 SP17 patch 4	V3.5 SP19 patch 2	

Drivers and templates

System version	JUMO variTRON Program App ^{a,b}	Visu template	digiLine driver	
5	---	---	2.0.0.5 and above	
6	---	462.6.0.0.1 and above	2.0.0.5 and above	
7.0	474.7.0.2.0 and above	462.7.0.0.1 and above	2.0.0.5 and above	
7.1	474.7.0.3.1 and above	462.7.0.0.1 and above	2.0.0.5 and above	
8.0	---	462.8.0.0.1 and above	2.0.0.5 and above	
8.1	---	462.8.0.0.2 and above	2.0.0.5 and above	
8.2	474.8.0.0.44 and above	462.8.2.1.0 and above	2.0.0.6 and above	
8.3	474.8.0.0.44 and above	462.8.2.2.0 and above	2.0.0.6 and above	
8.4	474.8.0.0.44 and above	462.8.2.2.0 and above	2.0.0.6 and above	
9	474.9.0.1.XX and above	462.9.0.2.0 and above	2.0.0.6 and above	

^a Previous designation up to and including system version 8.4: JUMO smartWARE Program

^b Incl. JUMO variTRON template

JUMO smartWARE

System version	JUMO smartWARE Setup ^a	JUMO smartWARE Evaluation ^a		
5	432.4.0.0.35 and above	452.1.0.0.21 and above		
6	432.6.0.0.6 and above	452.2.0.0.12 and above		
7.0	432.7.0.0.28 and above	452.3.0.0.12 and above		
7.1	432.7.1.0.7 and above	452.4.0.0.7 and above		
8.0	432.8.0.0.50 and above	452.5.0.0.25 and above		
8.1	432.8.1.0.9 and above	452.5.0.0.25 and above		
8.2	432.8.2.0.27 and above	452.5.0.0.25 and above		
8.3	432.8.3.0.7 and above	452.5.0.0.25 and above		
8.4	432.8.4.0.4 and above	452.5.0.0.25 and above		
9	432.9.0.0.91 and above	452.6.0.0.59 and above		

^a Downward compatible

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JUMO variTRON 300 – 705003

Device software and development environment

System version	Firmware	CODESYS Runtime	CODESYS IDE	
6	431.6.0.0.36 and above	V3.5 SP16 patch 3	V3.5 SP16 patch 3	
7.0	431.7.0.0.26 and above	V3.5 SP17 patch 3	V3.5 SP17 patch 3	
7.1	431.7.1.0.4 and above	V3.5 SP17 patch 3	V3.5 SP17 patch 3	
8.0	431.8.0.0.44 and above	V3.5 SP17 patch 3	V3.5 SP17 patch 3	
8.1	431.8.1.0.6 and above	V3.5 SP17 patch 3	V3.5 SP17 patch 3	
8.2	431.8.2.0.23 and above	V3.5 SP17 patch 4	V3.5 SP19 patch 2	
8.3	431.8.3.0.3 and above	V3.5 SP17 patch 4	V3.5 SP19 patch 2	
8.4	431.8.4.0.3 and above	V3.5 SP17 patch 4	V3.5 SP19 patch 2	
9	431.9.0.0.96 and above	V3.5 SP17 patch 4	V3.5 SP19 patch 2	

Drivers and templates

System version	Visu template	digiLine driver		
6	467.6.0.0.1 and above	2.0.0.5 and above		
7.0	467.7.0.0.1 and above	2.0.0.5 and above		
7.1	467.7.0.0.1 and above	2.0.0.5 and above		
8.0	467.8.0.0.1 and above	2.0.0.5 and above		
8.1	467.8.0.0.2 and above	2.0.0.5 and above		
8.2	467.8.2.1.0 and above	2.0.0.6 and above		
8.3	467.8.2.2.0 and above	2.0.0.6 and above		
8.4	467.8.2.2.0 and above	2.0.0.6 and above		
9	467.9.0.2.0 and above	2.0.0.6 and above		

JUMO smartWARE

System version	JUMO smartWARE Setup ^a	JUMO smartWARE Evaluation ^a		
6	432.6.0.0.6 and above	452.2.0.0.12 and above		
7.0	432.7.0.0.28 and above	452.3.0.0.12 and above		
7.1	432.7.1.0.7 and above	452.4.0.0.7 and above		
8.0	432.8.0.0.50 and above	452.5.0.0.25 and above		
8.1	432.8.1.0.9 and above	452.5.0.0.25 and above		
8.2	432.8.2.0.27 and above	452.5.0.0.25 and above		
8.3	432.8.3.0.7 and above	452.5.0.0.25 and above		
8.4	432.8.4.0.4 and above	452.5.0.0.25 and above		
9	432.9.0.0.91 and above	452.6.0.0.59 and above		

^a Downward compatible

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JUMO variTRON 500 touch – 705004

Device software and development environment

System version	Firmware	CODESYS Runtime	CODESYS IDE	
8.0	446.8.0.0.44 and above	V3.5 SP17 patch 3	V3.5 SP17 patch 3	
8.1	446.8.1.1.0 and above	V3.5 SP17 patch 3	V3.5 SP17 patch 3	
8.2	446.8.2.0.23 and above	V3.5 SP17 patch 4	V3.5 SP19 patch 2	
8.3	446.8.3.0.3 and above	V3.5 SP17 patch 4	V3.5 SP19 patch 2	
8.4	446.8.4.0.3 and above	V3.5 SP17 patch 4	V3.5 SP19 patch 2	
9	446.9.0.0.96 and above	V3.5 SP17 patch 4	V3.5 SP19 patch 2	

Drivers and templates

System version	JUMO variTRON Program App ^{a,b}	Visu template	digiLine driver	
8.0	---	490.8.0.0.1 and above	2.0.0.5 and above	
8.1	---	490.8.0.0.2 and above	2.0.0.5 and above	
8.2	505.8.0.0.44 and above	490.8.2.1.0 and above	2.0.0.6 and above	
8.3	505.8.0.0.44 and above	490.8.2.2.0 and above	2.0.0.6 and above	
8.4	505.8.0.0.44 and above	490.8.2.2.0 and above	2.0.0.6 and above	
9	505.9.0.1.XX and above	490.9.0.2.0 and above	2.0.0.6 and above	

^a Previous designation up to and including system version 8.4: JUMO smartWARE Program

^b Incl. JUMO variTRON template

JUMO smartWARE

System version	JUMO smartWARE Setup ^a	JUMO smartWARE Evaluation ^a		
8.0	432.8.0.0.50 and above	452.5.0.0.25 and above		
8.1	432.8.1.0.9 and above	452.5.0.0.25 and above		
8.2	432.8.2.0.27 and above	452.5.0.0.25 and above		
8.3	432.8.3.0.7 and above	452.5.0.0.25 and above		
8.4	432.8.4.0.4 and above	452.5.0.0.25 and above		
9	432.9.0.0.91 and above	452.6.0.0.59 and above		

^a Downward compatible

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Release notes

The release notes show the key differences between one system version and the previous system version. A distinction is made between the central processing units here. Differences that are applicable to all central processing units are listed under 70500x.

System version 5

705002

- Shared file system access from CODESYS and the Node-RED application (folder /jupiter/share)

System version 6

705002

- Acquisition (logging) of process data (max. 240 channels) and batches (max. 20)

705003

- 705003 officially available for the first time
- Acquisition (logging) of process data (max. 60 channels) and batches (max. 10)

70500x

- CODESYS library for process values
- SSH password can be generated
- Configurable number of errors for system start from the backup partition

System version 7

705002

- PROFINET Device 1-Port (optional extra)
- Program generator incl. JUMO smartWARE Program (optional extra)

705003

- OPC UA Server
- CODESYS library for Wtrans transmitter configuration
- Firmware update for radio module (V1.01)

70500x

- Update to CODESYS V3.5 SP17 patch 3
- CODESYS Development System as a 64-bit version (per default); 32-bit version possible as a "fallback"
- Integration of network drives as part of the configuration
- File system access to USB storage media via CODESYS
- JUMO Web Cockpit: File explorer for files in the shared folder
- Configuration of groups: Additional operating modes (event operation, event operation with post trigger, time operation)
- Configuration of groups: Linear or logarithmic scaling of the analog channels
- Update for cloud gateway (version 4.4.20211214)

System version 8

705003

- DNV® approval

705004

- 705004 available for the first time
- Variable screen orientation
- PROFINET Device 1-Port (optional extra)

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70500x

- User management: Additional users created per default, new user rights
- Program generator (standard) included in the basic type
- USB to Ethernet converter as accessories
- Setup program: Import of a setup project template, import of a CODESYS project archive
- Datastore gateway: Manual export of the recorded data
- File explorer: New functions
- Network drives: Logon as guest or as user with password
- Data recording: Normal or compact (only measured value)
- Recording of alarm text messages of the input or output modules
- Firmware update of the input or output modules
- Math/logic formulas for multichannel controller module
- Update for cloud gateway (version 4.14.20240605, variTRON firmware xxx.8.2.2.x and above)
- Node-RED: Special nodes for access to process values
- Firmware update: Check of the expansion stage, option to adopt the current configuration

System version 9

70500X

- Process value access via Node-RED
- JUMO Web Cockpit: Certificate administration and TLS

I/O modules: Support of I/O system 7051xx digital modules

- 705135: 16-channel digital input module (DC 0/24 V digital input)
- 705143: 4-channel digital output module (3 A relay changeover contact)
- 705145: 16-channel digital output module (DC 0/24 V logic output)
- 705162: 2-channel communication module (router module system bus)
- 705163: 3-channel communication module (router module system bus)
- 705171: System module (mTRON T adapter to I/O system)

Setup program

- Expansion of HW assistant system bus: Support of I/O system 7051xx digital modules, TYA
- Setting of transmission options as profiles
- End of life support for Windows® 7

705002

- Recorder app (recorder screen): Device visualization, web visualization

705004

- Recorder app (recorder screen): Device visualization, web visualization
- Device visualization: Mixed operation of device display/CODESYS Remote TargetVisu

End of support (end of life)

- System version 5: April 30, 2022
- System version 6: June 30, 2023
- System version 7: December 31, 2024