

Germany-Jiumo, VAISALA

- Process monitoring instruments
- Environmental monitoring
- High-precision temperature and humidity sensor
- military-grade differential pressure sensor
- wireless data logger
- Instrumentation
- Liquid level/material level monitoring
- instrument flow meter online monitor
- pressure detection/transmitter
- Temperature detection, temperature controller pH meter

VAISALA





More than **sensors + automation**





**Industrial temperature sensor,
Plant engineering and vehicle engineering**

JUMO has been manufacturing high-quality RTD temperature probes and thermocouples since the mid-1960s. Temperatures below about 500°C are generally measured with RTD thermal resistors. High measurement accuracy and long-term stability are ensured by a platinum temperature sensor. Thermocouples are suitable for measuring higher temperatures. There are L, K, N, S or B type thermocouples available upon request. The in-house DAKKS laboratory and our own temperature sensor film production facilities strengthen JUMO's expertise and offer our customers maximum flexibility. JUMO is currently one of the world's leading manufacturers in this field.

Thermocouple and RTD temperature probes with junction box or connecting cable

Model: 901020, 901030, 901120, 902020, 902023, 902030, 902120, 902123, 902820, 901150, 901190, 901210, 902050, 902150, 902153, 902190, 902210, 90 2350



RTD temperature probe with wireless data transmission

Model: 902930, 902931, 707060



RTD temperature probe with head connection

Model: 902040, 902044



RTD Temperature Probes for Industrial Solutions

Model: 902424, 902425, 902434, 902435, 902810, 902815, 902915, 902940



Mechanical and electrical temperature monitoring

JUMO's decades of experience in manufacturing electromechanical thermostats and dial thermometers make it a reliable partner. Our devices can easily acquire and control temperature without the need for auxiliary power, making these devices the standard across industries. The product range ranges from mass-produced products to individual customer solutions produced on a small scale.

Indoor, outdoor and channel RTD temperature probes

Model: 902520



JUMO plastoSENS T01/02/03

Motion-resistant, surge-proof and vapor-sealed plastic temperature probe

Model: 904001, 904002, 904003



Platinum disc temperature sensor according to DIN EN 60751

Model: 906121, 906122, 906123, 906124, 906125



Panel-mounted, surface-mounted temperature switches EM series, heatTHERM series

Model: 602021, 603070



dial thermometer

Model: 608002





From sensor to modular multi-channel measuring device

Water is the basis of all life on earth. When you consider that about 70% of the Earth's surface is covered by sea water, you're going to make the most of it. However, the water is not evenly distributed and is not suitable for immediate use in every state. This places extensive demands on measurement technology. Whether drinking water, swimming pool water, tap water, ultrapure water, domestic water, process water or cooling water, each sector has its own requirements in terms of sensors and equipment for measuring critical quality parameters. Before water can be used, it often needs to be treated with chemical additives or brought to the desired state. Analytical measurement sensors and controllers implement these steps in an established way. From single-channel track-mounted transmitters to multi-channel controllers and recorders, users have a variety of options based on their needs and more. JUMO CTI-500 and JUMO CTI-750 electromagnetic conductivity transmitters. JUMO has earned a permanent place among manufacturers and operators in the food and beverage industry. JUMO products always comply with special hygiene requirements.

JUMO ecoLine/BlackLine/tecLine/tecLine HD pH and redox electronic board

Model:201005,201020,201021,201030,201050



Thin film and optical sensors

Residual ammonia, total chlorine, dioxide, oxygen, hydrogen peroxide, peracetic acid, ammonia, bromine, turbidity and dissolved oxygen

Model:201040,202610,202613,202630,202631,202634 202636202637 202670



JUMO eCOTRANS LI 01/02/03. JUMO eCOTRANS pH 03

Transmitter with relay
Model:202723,202731,202732

JUMO ecoLine/BlackLine/tecLine/digiLine

Electrode and electromagnetic conductivity sensors

Model:202706,202707,202708,202709,202922,202923,202924,202925,202930,202941,202942,202943



JUMO CTI-500/750

Electromagnetic signal rate and concentration transmitter

Model:202755,202756



JUMO AQUIS 500 PH/CR/CVAS

Transmitter Controller Wall and Panel Mounting

Model:202560,202565,202566,202568



JUMO dTRANS PHVCR/AS 02

Transmitters and regulators
Model:202551,202552,202553



JUMO AQUIS touch P/s

Multi-channel modular transmitter with recording function
Model:202580,202581





Quality comes from details

A key part of automation technology is the highly accurate and reliable recording of process pressures. Continuous pressure monitoring has broad application prospects, ensuring process reliability and improving product quality. Our proven production technology allows us to ensure all quality processes and increase product flexibility. This in turn allows us to give special consideration to customer requirements and application-oriented conditions. In addition to low measurement values in the standard range, pressures up to 600bar can also be recorded. We offer a variety of outputs including analog signals as well as HART@ or bus communication. The wide range of possible electrical and process connections makes the pressure transmitter suitable for almost every application. JUMO's pressure transmitters are widely used in industrial compressors, high-pressure equipment, heating/refrigeration/air conditioning industries, food and chemical industries, and clean rooms. These devices offer application-oriented approvals such as ATEX or DINV GL, depending on the industry's operation.

Pressure measuring element

Model:404410,405101



JUMO DELOS series

Pressure Transmitters
Model:405052,405054



JUMO dTRANS p20 series

Pressure and differential pressure transmitters
Model: 403022, 403023, 403025, 403026



Strong gland seal

Model: 409772, 409774, 409776, 409778, 409780, 409782, 409784



JUMO MIDAS series

Pressure Transmitters
Model: 401002, 401005, 401008, 401009, 401010, 401011, 401012, 401020, 401021, 401050, 404710



JUMO dTRANS p30 series

Pressure Transmitters
Model: 402050, 402058, 404366, 404753



JUMo Wtrans p

Pressure transmitter with wireless data transmission
Model:402060



**Hydrostatic level measurement:
Pressure as a means to an end**

When performing liquid level measurements, pressure measuring devices communicate according to the principles of hydrostatics. Hydrostatic pressure is generated in the liquid by the column of liquid located above the sensor and is always proportional to the depth of immersion of the sensor. Depending on the measurement tasks, pressure measurement devices are designed. Level probes and pressure measuring devices are specially developed for mining. Liquid levels can be used in open tanks or open water. The rack purification device of a water plant is an application example. The JUMO MIDAS DP10 and JUMO TRANSp20 DELTA differential pressure measuring devices are the preferred solutions for sealed vessels. For hygienic reasons, the level can also be recorded externally using relative or differential pressure measuring devices. Float switches are used for liquid level measurement, and float level transmitters are used for quasi-continuous level measurement of liquids. The measuring principle is based on Archimedes' principle and is applicable to any container. In addition to terminal equipment, JUMO also supplies mechanical floats for the production of float switches.

**JUMO MAERA Series
Submersible level gauge**

Model: 401015, 402090, 404391, 404392, 404393



JUMO dTRANS p30 series

Pressure Transmitters
Model: 404366, 404753



JUMO DELOSSI and JUMO dTRANS p20

Pressure transmitter with display suitable for unsealed tanks
Model: 405052, 403025, 403026



JUMO MIDAS DP10 and dTRANS p20 DELTA

Differential pressure transmitter is suitable for sealed tanks
Model: 401050, 403022, 403023





Precision flow measurement for continuous monitoring and control

JUMO helps you design safely through expertise and sensor long-term stability and accuracy. Depending on the application, we can provide suitable flow sensors for liquids, gases or vapors. We can also provide ATEX certified products if required. If applicable to corresponding evaluation devices and controllers, these devices allow the flow to be measured, displayed, controlled or recorded. The JUMO product range includes a wide range of equipment. Orifice plates and probes offer a wide variety of devices. When these are used in conjunction with differential pressure transmitters, they also provide optimal measurement accuracy. We offer electromagnetic flowmeters, especially for liquid flow measurement. These devices are developed for industrial and sanitary applications. They are particularly flexible and can be used with various nominal widths, measuring tubes, materials and process connections.

JUMO HOWTRANS MAG S01

Industrial electromagnetic flowmeter
Model:406012



JUMO IOWT RANS MAG H0

Sanitary electromagnetic flowmeter
model: 406015



JUMO dTRANS p02/p20

Differential pressure transmitter
Model:404382,403022,403023



JUMO PINOS L02

Thermal flow sensor
Model:406041



JUMO HOWTRANS MAG 102 MID

Flow transmitter
model: 406011



Flow Sensors

Model:406090



Vortex flow meter

Model: 406020





Humidity measuring probe

As a leading manufacturer of measurement and control technology, JUMO also offers a wide range of measurement technology products for air humidity and CO2 concentration measurement in the air conditioning and ventilation sectors as well as in building automation. Depending on the application, capacitive humidity sensor technology can be used in various measuring probes. Humidistats can also be used as pure switching devices. The carbon dioxide concentration measuring probe uses a proven infrared technology.

Very high-quality and powerful microprocessor-controlled measuring probes are used for complex industrial measurement tasks. They can also be used to output additional measured values such as absolute humidity, dew point temperature, mixing ratio, etc. Its outstanding features include stable and reliable measurement, high measurement accuracy, traceable measurement results, and multiple parameter configurations based on the measurement probe.

Devices with intelligent interchangeable probes, devices with intrinsically safe measuring probes for field applications, and devices with wireless data transmission round out the product range.

Temperature and humidity sensor

Applications in air conditioning and ventilation technology
Model:907020



Remote humidity sensors for climate monitoring and

Carbon dioxide concentration measurement probe
model: 907021



Industrial temperature and humidity measurement probe

Model:907023



Intrinsically safe industrial measuring probes for measuring humidity, temperature and derived variables

Model:907025





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Devices with intelligent interchangeable probes, devices with intrinsically safe measuring probes for field applications, and devices with wireless data transmission round out the product range. Reliable after-sales service, providing maintenance and calibration services. Become a partner in humidity measurement technology with JUMO and you will get the best solutions.

Temperature and humidity sensor

Applications in air conditioning and ventilation technology
Model:907020



Remote humidity sensors for climate monitoring and

Carbon dioxide concentration measurement probe
model: 907021



Industrial temperature and humidity measurement probe

Model:907023



Intrinsically safe industrial measuring probes for measuring humidity, temperature and derived variables

Model:907025



Capacitive Humidity Sensor Smart Interchangeable Probe

Model:907027



Zhan Humidity Sensor

Model:907031.907032



JUMO Wtrans E01

Humidity, temperature and carbon dioxide concentration probe with wireless data transmission
Model:902928





programmable electronic controller

Highly accurate control of temperature, pressure, humidity, level and other measuring ranges plays a vital role in modern industrial and process applications. We have a wide range of electronic controllers, ranging from single channel to multi-channel screen control for users to choose from. We can provide customers with reasonable solutions to meet their control needs. The built-in self-tuning system can quickly and accurately help customers set reasonable PID parameters. The universal input interface can connect many kinds of sensors to provide customers with high application capabilities. User-selectable communication interfaces integrate management and control systems to meet today's automation technology needs.

JUMO IMAGO 500

Multi-channel process and program controller
Model: 703590



JUMO DICON touch

Dual-channel process and program controller with paperless recording and touch screen
Model: 703571



JUMO ATRON

Compact controller with programmable function
Model: 703041



JUMO diraTRON

Compact controller
model: 702110



Mechanical temperature switch

Mechanical temperature switches are used in the heating and air conditioning industry as well as in building automation. Temperatures in various processes can be controlled without the use of auxiliary power supplies. In industrial applications, explosion-proof surface-mounted temperature switches enable maximum temperature control of heating cables. Here, temperature switches stand out for their resistance to electromagnetic interference.

JUMO ATRON

Compact controller with programmable function
Model: 703041



JUMO exTHERM-AT

Explosion-proof surface-mounted clarity switch
model: 605055



Panel mounted temperature switch

EM series
Model:602021



JUMO froSITHERM-AT/-DR/-ATE

Antifreeze temperature switch
Model:604100.604170





Document, visualize, evaluate and archive

The recording and archiving of measurement data - especially when obligations to provide evidence must be fulfilled - have always been part of JUMO's measurement technology and product portfolio. The paperless recorder is a high-quality product that replaces the paper recorder. They have made great strides in factory visualization, monitoring capabilities and web server connectivity.

JUMO LOGOSCREEN 601

In addition to the 5.7-inch touch screen, the series also offers various digital interfaces, up to 6 universal inputs, batch processing recording reports, factory visualization and limit value monitoring functions.

JUMO LOGOSCREEN 700

The flagship product among recorders is highly scalable and can be equipped with up to 18 measurement inputs. It can also generate 10 customer-defined process screens and up to 5 batch reports. JUMO recorders comply with FDA 21CFR Part 11 requirements for electronic recording of process data and utilize the latest hashing algorithms to protect data against tampering.

JUMO MTRON T

Measurement, control and automation systems provide comprehensive documentation capabilities. This creates a distributed acquisition system and archiving of up to 54 analog measurement channels and 54 digital channels.

JUMO LOGOSCREEN 601

Touch screen paperless recorder
Model:706520



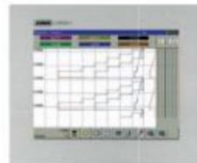
JUMO LOGOSCREEN 700

Highly expandable paperless recorder
Model:706530



JUMO MTRONT-Multifunctional operating panel 840

Measurement, control and automation systems
Model:705060



JUMO MTRON T-CPU

Measurement, control and automation system with controller module and input and output modules
Model: 705000





Gate power controller and solid state relay

In many electric heating systems, solid-state relays ensure lossless switching operation at high currents and therefore play a key role in ensuring high heater availability. There are advantages to using JUMO TYA 200 in thermal applications, where precise control of the electric heat output is crucial for product quality and ensuring energy efficiency.

JUMO TYA 200 Series

Single-phase and three-phase power controllers
Model: 709061, 709062, 709063



JUMO TYA 432

Garden state relay
Model:709010.709020



Temperature Transmitter

The JUMO dTRANS T series offers the right transmitter for your specific application. Whether the transmitter is mounted in the probe junction box or on a mounting rail, it converts the temperature of the connected sensor into a precise standard signal for further processing in the production plant. The JUMOdTRANS T09 cable transmitter is ideal for factory upgrades or retrofits. JUMO dTRANS T06 Ex is used in safety-related areas (SIL/PL) and Ex applications. In Ex areas, the Ex-i supply and input isolation amplifiers ensure safe isolation between Ex and non-Ex areas.



JUMO dTRANS T05

Intelligent two-wire transmitter
Model:707050,707051



safety barrier

Model:707530



Digital display

The digital display accurately displays process values, allowing you to pay close attention to important parameters that are critical to a smooth production process.

JUMO ITRANS T06J,T06,T06Ex

Multifunctional four-wire guide rail mounting transmitter
model: 707071.707071.707075



JUMO dTRANS T01 HARTO/EX

Two-wire smart transmitter
Model:707013,707016



JUMO ATRANS T09

Cable transmitter
model: 707090

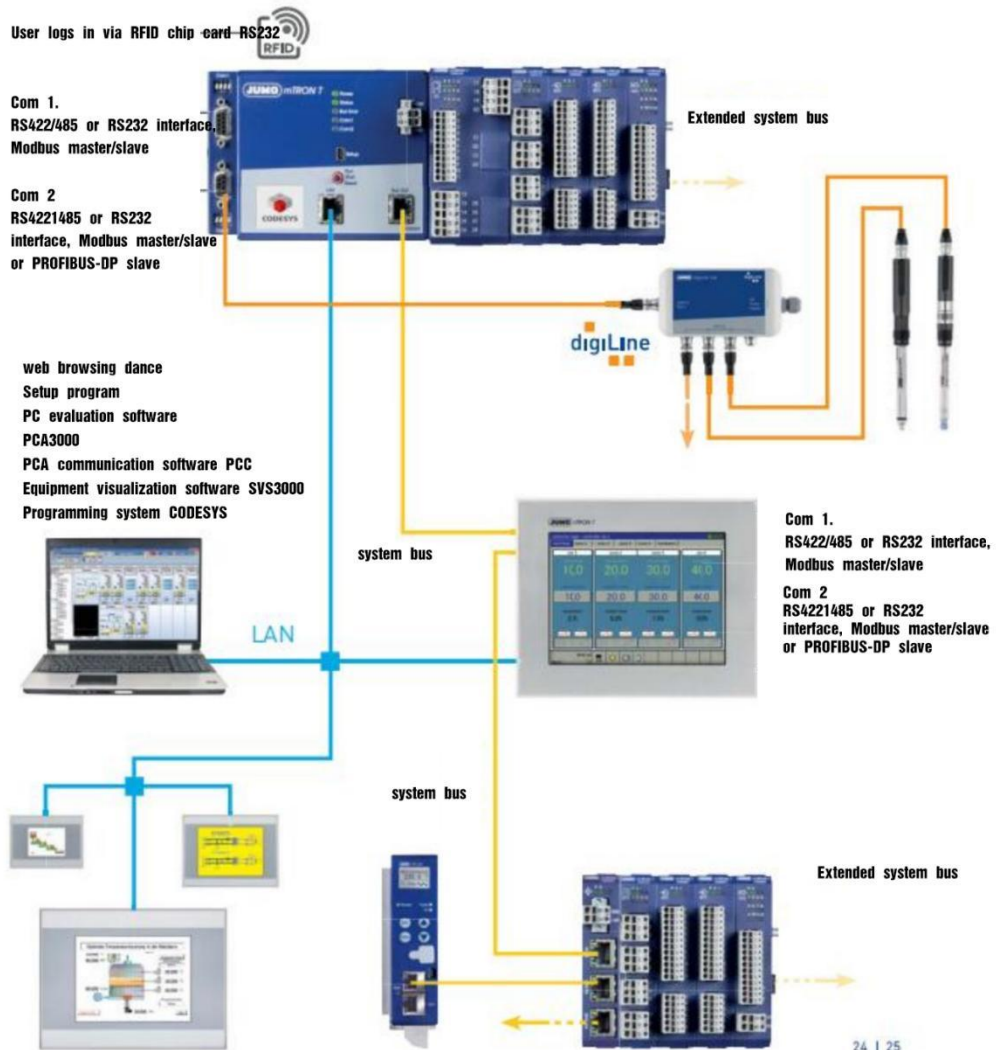


JUMO diraVIEW

Digital display
Model:701510



system structure





Monitoring using electronic safety temperature limiters and monitors and electromechanical thermostats

Electronic temperature monitoring is crucial in many applications, especially for safety-related temperature monitoring of special system equipment. When actual temperatures exceed specified limit values, this can cause significant harm to people, the environment, products and production systems. JUMO SafetyM series products avoid such dangers by providing sophisticated electronic temperature limiters and monitors. Advantages of SIL-certified devices: This range of products ensures a safe and error-free shutdown of the device if the maximum or minimum temperature specified at the factory is exceeded or fell below.

In applications where auxiliary power cannot be provided to power electronic components, electromechanical thermostats perform their tasks reliably and thus play a vital role in ensuring safe production equipment or equipment design. The thermostat operates according to the principle of liquid expansion: the liquid in the measuring system expands when heated, and the transmission activates a microswitch, which then safely shuts down the system.

JUMO safetyM STB/STW EX

Safety temperature limiters and monitors
Complies with DIN EN 14597 and ATEX certified models: 701150, 701155



JUMO safetyM TB/TW 08

Temperature limiter and monitor according to DIN EN 14597
Built-in and DIN rail device model number: 701160701170



surface mount temperature switch

ATH series
model:603021



JUMO heatTHERM-AT

Surface Mount Temperature Switch
Model: 603070



Panel thermostat

EM series, heatTHERM series
model: 602021, 602030, 602031



JUMO froSITHERM-AT/-ATE

Antifreeze temperature switch
model: 604100, 604170



Double gold hidden temperature switch

Model:608301



dial thermometer

Model:608002

