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JUMO Cloud

IoT Platform for Reliable Process Management

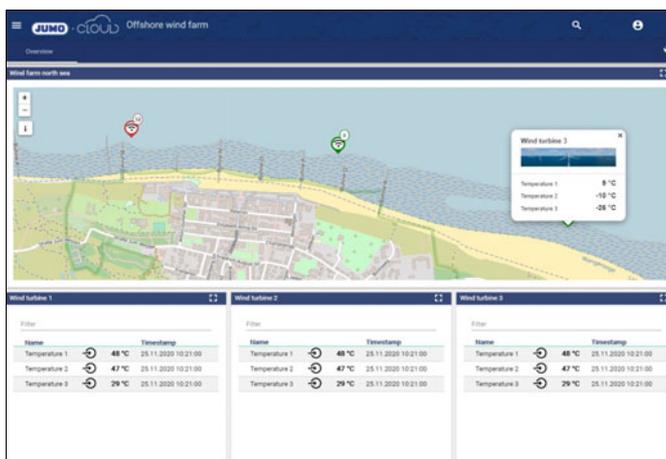
Brief description

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.

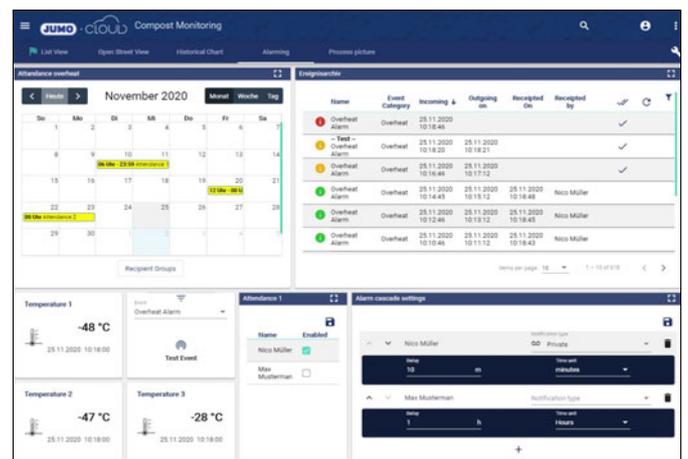


-  **Global access**
to your process information with individually configurable user rights and dashboards
-  **High level of data security**
due to certification, end-to-end encryption, and redundant infrastructure
-  **Unlimited access**
to the dashboards with any number of end devices via common web browsers without carrying out installation

-  **Reduced outlay**
by JUMO storing the data, including backup, on your behalf
-  **Alarm management**
through data evaluation, availability planning, monitoring and remote alarm functions



Integration of maps



Availability planning and remote alarm



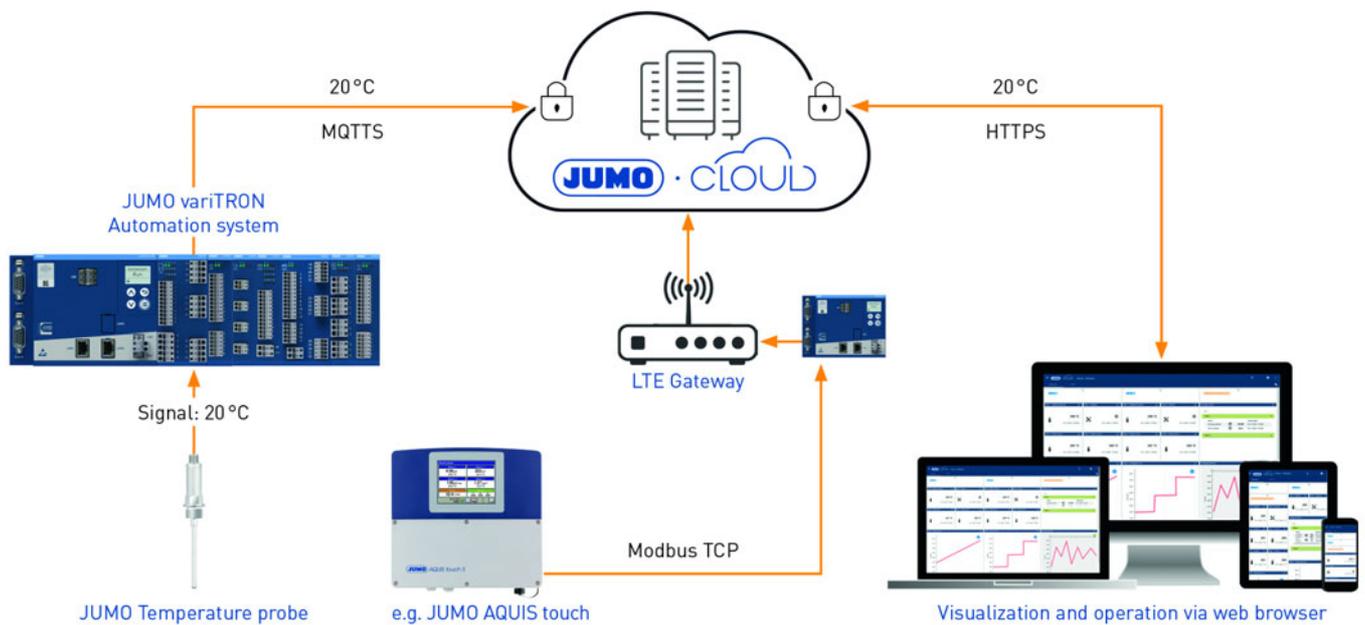
Data transport

Different process value signals can be processed in the JUMO Cloud. A **signal** may be, for example, a sensor's measured temperature value (example for 20 °C signal shown in the image below). It is securely sent to the JUMO Cloud computer center via a device from the JUMO variTRON family using an encrypted protocol.

The signal/measured temperature value in the JUMO Cloud can be viewed and managed via www.jumo.cloud. Here, the entire communication is also encrypted. In order to ensure extra security for the client, the data is efficiently saved redundantly in a German computer center in compliance with the GDPR.

And JUMO can also easily answer the question "Who does the data belong to?": it is only you!

Diagram of data transport for a temperature signal



NOTE

An Internet connection is required to transfer the data from the JUMO variTRON to the computer center. The transfer can be wireless or cable-based.



NOTE

If you use the JUMO variTRON as a gateway, further information from different devices can be sent to the JUMO Cloud. The following protocols are supported, amongst others: OPC UA, Ethercat, Modbus TCP, Profinet.



FURTHER INFORMATION!

Further information on the JUMO variTRON:



qr-705002-en.jumo.info

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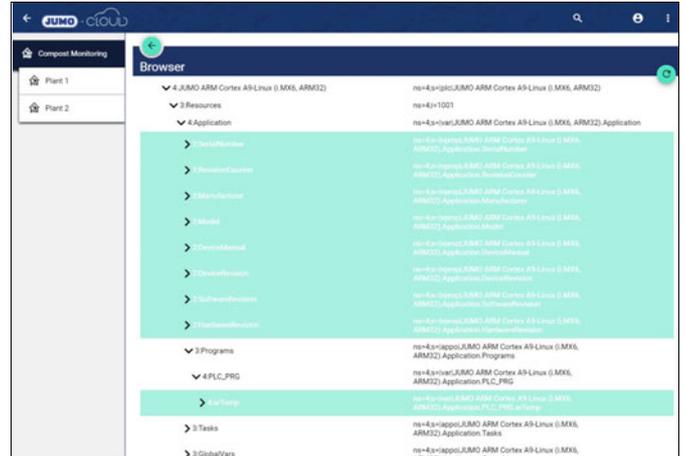


Functions

Data and facts

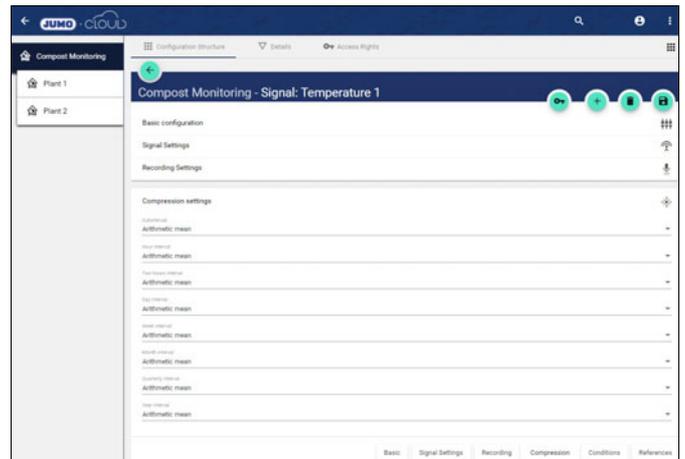
Data archiving:

- Configurable data acquisition
- Acquisition of the average value, last value, minimum and/or maximum
- Acquisition according to the delta event method
- Acquisition cycle at a speed of up to 1 second
- Extremely compact storage of raw data



Data compression:

- Minor interval can be set; 15 minutes as standard
- Hourly interval, two-hourly interval, daily interval, weekly interval, monthly interval, quarterly interval, and annual interval preconfigured
- Min/max reference can be set per evaluation (for example daily data with max/max values from the two-hour values)
- In-memory calculation of predefined intervals and free intervals possible at any time
- Extremely compact storage of pre-compressed data



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Trends, reports, and scheduler

Trends:

- Display of current and historical data
- Value/timing charts
- Any number of axes and lines; any number of lines per axis
- Display as line, step line, or bar chart
- Time comparisons across multiple time axes
- Zoom using mouse/touch, shifting of the time range using time bars
- Automatic key
- Ruler for reading the values and time with a locking function
- User configurable balloon tool tips for the value at the time that is shown
- Export of data to CSV, XLSX, and PDF as well as printing directly from the chart
- Pie chart



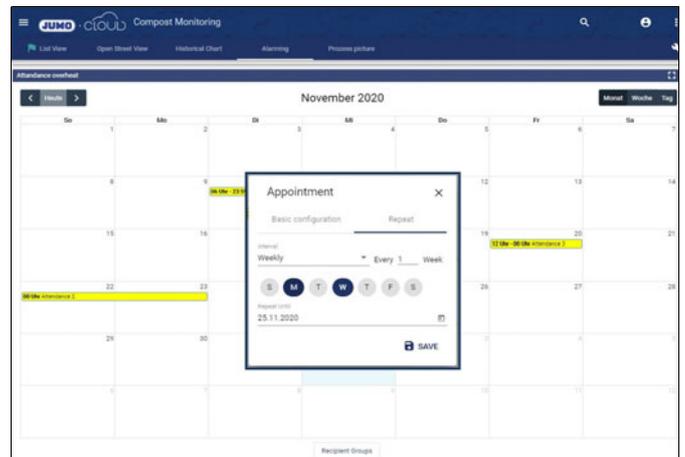
Reports:

- Web-based reports
- Output in the browser, download as PDF or Excel file
- Templates can be designed using HTML, more complex calculations can be programmed via JavaScript
- User configurable manual inputs for manual counter or laboratory data
- Industry-specific templates for energy, water, and wastewater



Scheduler:

- Timer/timer program
- One-time events and series
- Value changes at the start and end of an event can be parameterized



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Alarm and event system

Alarm system:

- User configurable event classes with classification (note, warning, malfunction) and acknowledgement requirement yes/no
- Any number of conditions per signal with logical comparators (>, >=, =, <=, <, ?=) and values; separate for when the event occurs and when the event stops
- Start and stop delay can be configured per condition
- Linking of conditions with logical AND and OR elements for an event

Name	Event Category	Issuing &	Outgoing on	Received On	Received by	
Overheat Alarm	Overheat	25.11.2020 10:30:45				✓
→ Seal - Overheat Alarm	Overheat	25.11.2020 10:29:29	25.11.2020 10:29:30			✓
Overheat Alarm	Overheat	25.11.2020 10:28:45	25.11.2020 10:29:12			✓
Overheat Alarm	Overheat	25.11.2020 10:26:46	25.11.2020 10:27:12	25.11.2020 10:30:46	Nico Müller	
Overheat Alarm	Overheat	25.11.2020 10:24:46	25.11.2020 10:25:12	25.11.2020 10:29:36	Nico Müller	
Overheat Alarm	Overheat	25.11.2020 10:22:45	25.11.2020 10:23:12	25.11.2020 10:29:35	Nico Müller	

Monitoring:

- Minimum/leakage/pipe leakage monitoring
- Maximum and periodic maximum monitoring
- Change rate monitoring
- Plausibility monitoring

Compost Monitoring - Monitoring

Basic configuration

Min-Max Monitoring

Description

Unit

Compost Monitoring

Path

Minimum Monitoring

Maximum Monitoring

Periodic Maximum Monitoring

Change Rate Monitoring

Plausibility Monitoring

Position Monitoring

Remote alarm:

- Availability planner
- Recipient and recipient group management
- Establishing of alarm cascades
- Multiple cycles of an alarm cascade possible
- SMS and email
- Push messages sent to smartphone app, sound until they are acknowledged
- Voice calls with synthesized voice for outputting any message text
- Archiving of all remote alarm steps

Compost Monitoring - Recipient: Max Musterman

Basic configuration

Basic configuration of the recipient

Contact Possibilities

Type	Name	Group	Phone	Enabled
E-Mail	Business	info@jumo.net		<input checked="" type="checkbox"/>
VSP	Private	+49175365188		<input type="checkbox"/>
Push-over Contact	BusinessMail	API Key		<input type="checkbox"/>
SMS	PrivateMail	+49175344311		<input type="checkbox"/>

Basic configuration | Contact Possibilities | References

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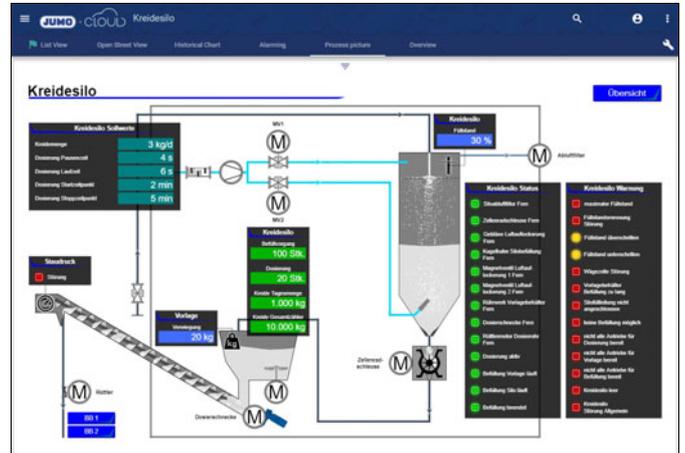
Add-ons

Maintenance:

- Definition of maintenance tasks possible in a time or signal-based manner
- Document attachment
- Acknowledgement of maintenance and resetting of specific operating hours counter possible

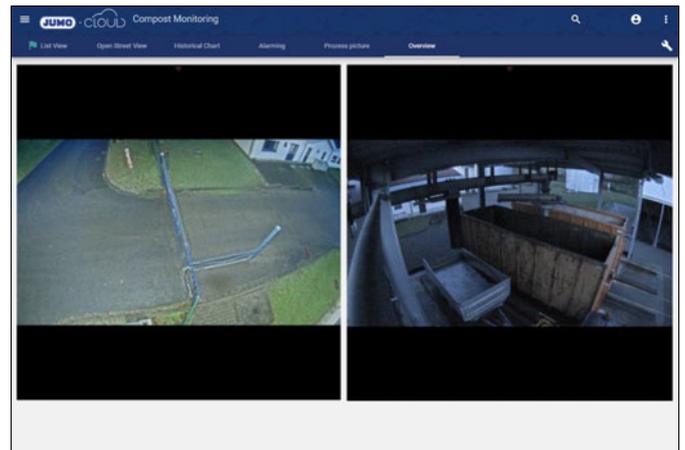
Process visualization:

- Vector-based, self-scaling process screens
- Editor with integrated animation and test tool
- Configurable links and interactions



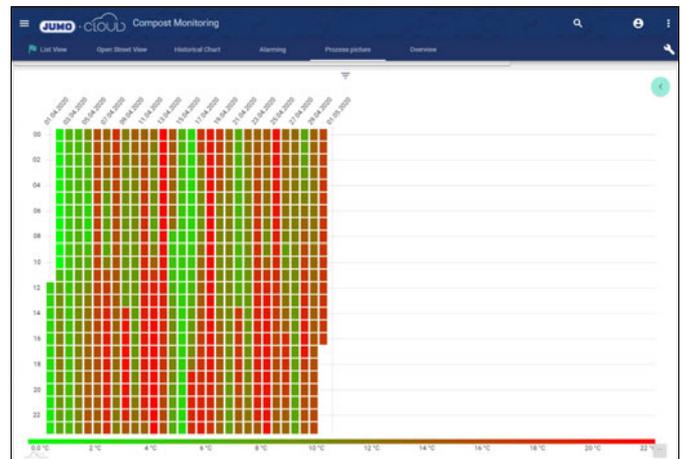
Camera integration:

- Integration of (M)JPEG camera (standard IP camera)
- Display of live image
- Archiving of camera images and sequences in a manner that is event and time-controlled
- Call up of camera images and sequences
- User configurable acknowledgement requirement for camera images and sequences
- Integration of up to 5 cameras (as standard) per customer



Energy package/ISO 50001 compliant:

- Heat map
- Sankey/flow chart with any number of nodes and connections between them
- Combined with functions from trending and reporting



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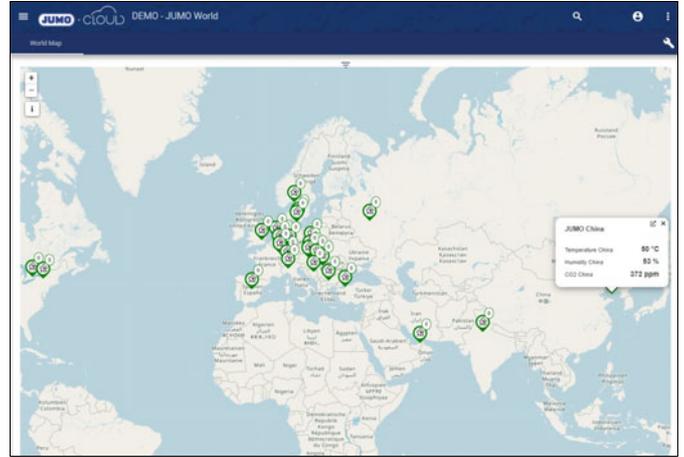
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Map and GPS integration

- Map as dashboard element
- Display of fixed markers with animation (e.g. malfunction at station) and link
- OpenStreetMap
- Live display of GPS trackers on the map
- Geofencing/position monitoring of GPS trackers



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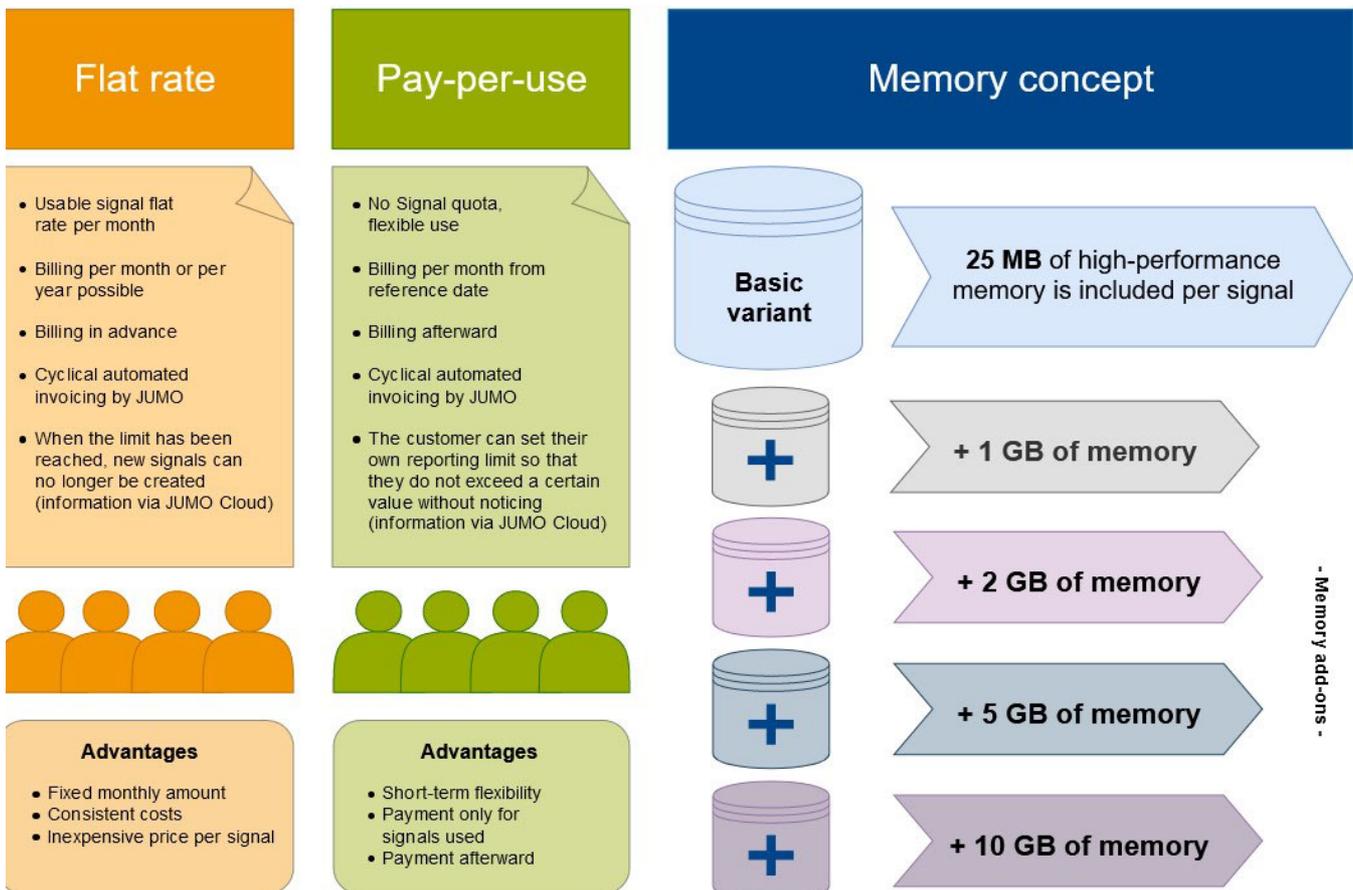
Payment and storage model

In the basic variant, a value can be stored 1.1 million times in the Cloud per signal. This corresponds to 25 MB of high-powered memory per signal. A storage quota is derived from the number of signals purchased and the memory that results from this. The customer can use this as they choose.

An example: A customer purchases 100 signals. This corresponds to a storage quota of 2500 MB and 110 million storage options in the Cloud. For each signal, the customer can now select how long they would like to have it saved. The longer and more frequently they save a signal, the more their storage quota is reduced. Every signal and its historical values are each designed as ring buffers. When 80% of the available storage quota is reached, the customer receives a warning with the possibility to buy additional monthly memory. If the customer would like to store data in the Cloud for longer than is possible in the basic variant, they can also buy additional memory as required.

Depending on the payment model of flat rate or pay-per-use, the customer can buy a certain number of signals per month. For the flat rate model, a defined signal flat rate per month is bought. In contrast, with the pay-per-use model, the signals used on the reference date are billed. Invoicing is on-going depending on the model.

Payment and storage model scheme



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Sample calculation

Signals required:	200 signals
Memory cycle:	200 signals every 5 minutes (1)
Storage time required:	10 years (due to audit)
Available storage quota:	200 signals × 25 MB = 5000 MB
Storage options:	200 × 1.1 million = 220 million
(1) Required storage:	200 signals × 10 years × (525 600 minutes : 5) = 210 240 000
Required storage quota:	210 240 000 × (25 : 1 100 000) = 4 779 MB
Required memory add-on:	None as required storage quota < available storage quota



NOTE

1 year has 525 600 minutes or 31 540 000 seconds

Signals required:	100 signals
Memory cycle:	60 signals every 3 minutes (1)
	40 signals every minute (2)
Storage time required:	5 years (due to audit)
Available storage quota:	100 signals × 25 MB = 2 500 MB
Storage options:	100 × 1.1 million = 110 million
(1) Required storage:	60 signals × 5 years × (525 600 minutes : 3) = 52560 000
(2) Required storage:	40 signals × 5 years × 525 600 minutes = 105 120 000
Required storage quota:	(52 560 000 + 105 120 000) × (25 : 1 100 000) = 3 584 MB
Required memory add-on:	2 GB
Available storage quota with add-on:	4 500 MB

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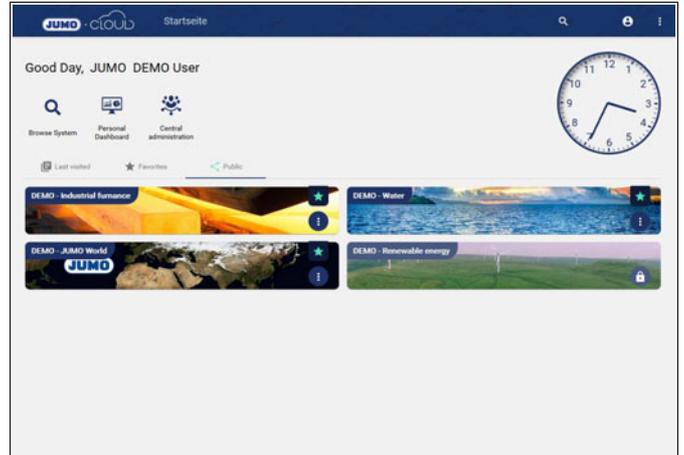


Access to Cloud

1. Register and look at demo applications



Register at www.jumo.cloud, confirm email, and log in.



In the "Public" tab, activate demos.

2. Send request to JUMO

Send request to the applicable sales employee or to mail@jumo.net.

3. Consulting and discussion of concept together

4. Test phase with JUMO Cloud starter kit and JUMO online documentation possible (please see "Worth knowing")

5. Place order and select payment model

6. Set up JUMO Cloud dashboards yourself, request engineering services or JUMO Campus training

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Worth knowing

Always up-to-date

When using the JUMO Cloud, you regularly receive the latest updates and functions which you can use with immediate effect and integrate into your process.

Completely secure

All of the data stored in the JUMO Cloud belongs to you! It is not forwarded to any third-party states, companies, or institutions. The computer center is also certified in accordance with ISO 27.001, is GDPR compliant, and is subject to the strictest access restrictions. The entire communication path is also encrypted.

Do you need support?

If you need more information, simple explanations, training courses, or support on the JUMO Cloud, there are a range of options available to you from JUMO.



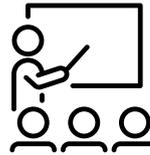
[Online-Help-Center](#)
Detailed JUMO Cloud documentation



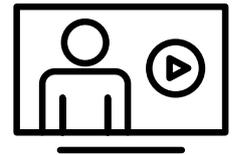
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Questions and information



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Training courses



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Explanatory videos

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Accessories

Designation	Part no.
Memory add-on +1 GB	00751309
Memory add-on +2 GB	00748799
Memory add-on +5 GB	00748797
Memory add-on +10 GB	00748804

Starter kit (only one starter kit per customer possible)	
JUMO Cloud access with own test client (for test duration of 30 days) + JUMO variTRON 300 + JUMO wTRANS T01	00748800
JUMO Cloud access with own test client (for test duration of 30 days) + JUMO variTRON 500 + controller module	00748802