



JCT



GROUP

You Are In Safe Hands

Gas Sampling

NextGen AQMS

Liquid Sampling

Process Analytics

Air Water Process Measurements You Can Trust



JCT Analystechnik

was formed in 1992 with the intention of providing engineered solutions to the gas sampling industries. Fast forward 32 years, **JCT** Group was formed with acquisitions and partnerships extending beyond gas sampling.

The new **JCT GROUP**

provides the same high quality and well-engineered products to broad range of industries. Our motto is simple: "*Provide solutions that people can trust*". With this philosophy, the **JCT** Group now provides solutions to ensure safety for our air and water. With its new acquisitions, the Group provides Gas Sampling Systems, Liquid Sampling Systems, Air Monitoring Systems and Analytical Products that can measure across a broad range of industries.

Günter Zimmer

General Manager
since 1992

Philipp Zimmer

Vice President
since 2018

Kunal Kothari

Vice President
since 2021

Gas Sampling

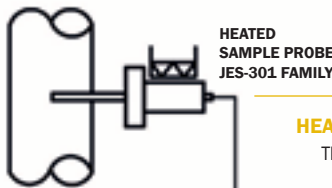
Sample Gas Conditioning You Can Trust

For the last 30 years **JCT** has been providing reliable and trust-worthy Gas Sampling and Conditioning Components for your process and emissions markets. These products are designed using our detailed application knowledge along with our partners inputs. We have recently expanded our product portfolio for our Gas Sampling Systems and continue to produce these products at our expanded facility out of Austria.



HEATED SAMPLE LINES

Well-operating heated sample lines are mandatory to achieve precise measurement results. The family covers temperature controlled as well as self-regulated and cut-to-length on site lines. It provides reliable operating temperatures above sample gas dew point.



HEATED SAMPLE PROBE
JES-301 FAMILY

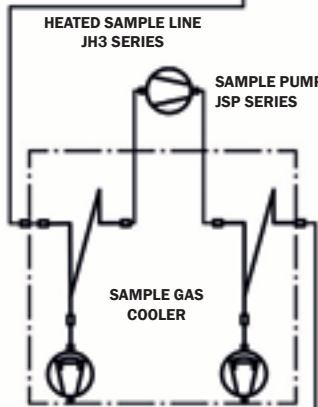
HEATED SAMPLE PROBES

The JES Family Heated Sample Probes cover all needs. From economical to complex solutions for heavy duty use in harsh conditions. The modular system will guarantee the perfect Sampling System for your process.



SAMPLE GAS COOLERS

The state of the art architecture of the JHEX-4 heat exchanger used in Sample Gas Coolers guarantees precise measurement results. Almost not measurable SO₂ and NO₂ loss combined with high capacity makes the **JCT** Coolers the best choice for your sample gas.



HEATED SAMPLE LINE
JH3 SERIES

SAMPLE PUMP
JSP SERIES

SAMPLE GAS
COOLER

SAMPLE GAS PUMPS

A low maintenance and low vibration Sample Gas Pump is key for a well-working gas analyzer system.



CONDENSATE ALARM

A reliable Condensate Alarm is critical to protect expensive analyzer equipment. The KW-1/2 offers reliable detection even for low conductivity condensate.

CONDENSATE
DETECTOR
KW-2

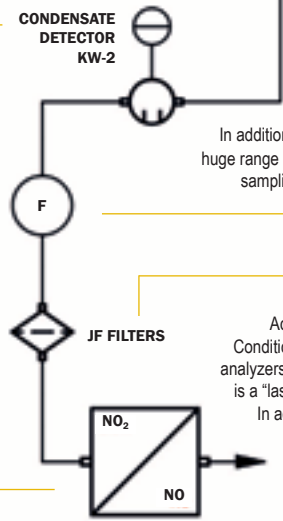
ACCESSORIES AND SPECIAL NEEDS EQUIPMENT

In addition **JCT** Gas Sampling provides a huge range of other products to handle your sampling and conditioning challenges.



NO₂ TO NO CONVERTER

For an economical measurement of NO_x with NDIR analyzers the JNOX Family of NO₂ to NO Converters are a great solution. The very long life and high efficiency cartridge guarantee a convenient operation.



JF FILTERS

NO_x CONVERTER

TO ONLINE GAS ANALYZER

FILTERS

Additional filtration in the Sample Gas Conditioning System is important to protect analyzers. For example the JAF-1 water stop is a "last line of defense" for gas analyzers. In addition also fine dust and acid filters are recommended.



Please visit our web page: www.JCT-gs.com

NextGen AQMS



Air Quality Monitoring You Can Trust

Starting with the acquisition of mlu-recordum, **JCT** developed a state of the art, innovative AQMS solution in the markets. Breaking away from the traditional AQMS, **JCT** once again delivered a well-engineered product that helps customers reduce their cost of ownership without sacrificing any features/functionality and still meet all the EPA guidelines.

- Installation within 30 minutes
- Up to 90 % less power consumption
- Integrated IoT system
- Airpointer App

PM SAMPLING INLET
For continuous PM2.5, PM10 or TSP measurement depending on the configuration. Temperature-controlled to avoid the effects of humidity.

AIR SAMPLING INLET
Continuously draws in air samples according to the respective directives

ZERO AIR SUPPLY
For daily quality control for generating pollutant-free air

GAS SPRING STRUT

COMPUTER

MAINTENANCE DOOR
Provides access for easy inlet filter changing, network connection, and a calibration gas inlet.

EXTENDED LIFETIME FILTER
A Teflon screen cylinder filter allowing for extended filter life even for high PM contamination may be used instead of the standard Teflon filter.

AIR CONDITIONING
Controls the internal operation temperature to ensure measurement data quality.

PUMP
Draws sampling gas through modules using one or two pistons, depending on configuration.

| | |
|-------------------------------------|--|
| PM10 PM2.5 | PM Sensor |
| O ₃ | Ozone Analyzing Module |
| CO | Carbon Monoxide Analyzing Module |
| SO ₂ H ₂ S | Sulfur Dioxide / Hydrogen Sulfide Analyzing Module |
| NO NO ₂ | Nitrogen Oxide / Ammonia Analyzing Module |
| NO _x | Additional Internal and External Sensors |
| AdS BTX | Benzene / Toluene / Ethylbenzene / Xylene |

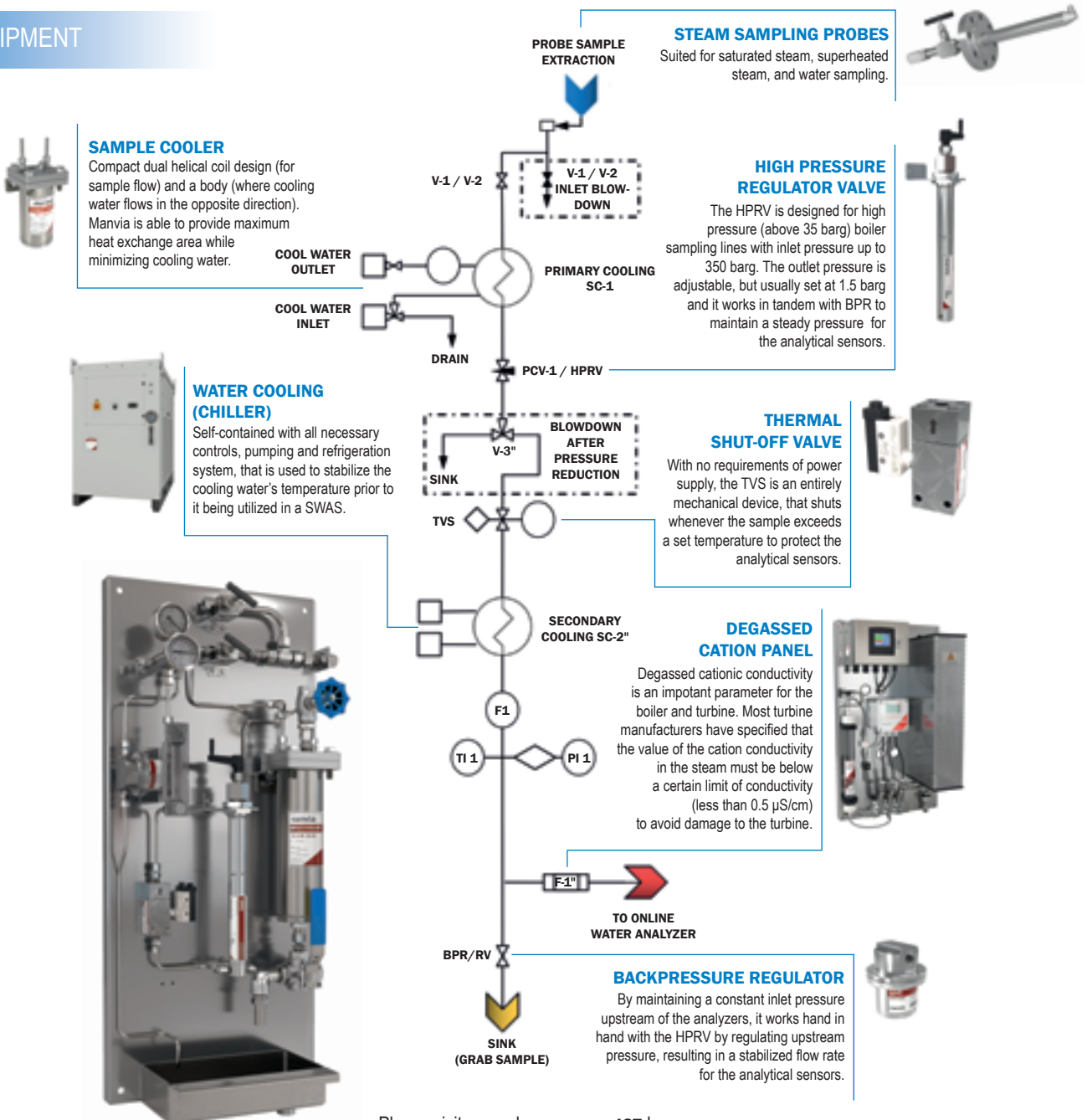
Please visit our web page: www.JCT-aq.com

Liquid Sampling

Liquid Systems You Can Trust

Acquisition of Manvia, helped **JCT** to bring the same high quality and engineering in Liquid Sampling and Conditioning Systems. We specialize in standard and customized **Liquid Sampling Systems** and components which are built in our state of the art facility in Spain.

SWAS EQUIPMENT





JCT
Liquid Sampling

Liquid Sampling

Liquid Systems You Can Trust

JCT Manual (Grab) Sampling Systems are designed to meet the user's specification and are therefore highly economical solutions. They maximise worker's safety, make operation as simple as possible and obtain a representative sample. There is no influence on the process and emissions to the environment are avoided.

SAMPLING SYSTEM



DEAD MAN SYSTEM with BLOCK SELECTOR VALVE

A component to let 2-way and 3-way manual valves, on safe position when the operator release the handle.

It is designed to be coupled to the sampler systems, so that, in case of confusion, forgetfulness, interruption of the operation for any reason, the sampler go to closed position and remains immediately isolate from process.



FIXED VOLUME SAMPLE CYLINDERS

Providing representative samples even in high pressure (e.g. steam, gas). Combined with the dead man system and block selector valve they are very simple to operate and provide maximum safety for the operator.



NEEDLE SYSTEM

A system to provide reliable samples and protect health and safety for the operator. The sealing of the bottle prevents gas or liquid leaks. The simple operation makes it easy for operators.



MANUAL SAMPLING PANEL

Manvia's state of the art manual sampling system has some unique advantages:

- maximizes worker's safety
- avoids emissions
- committed to environment
- obtains a representative sampling
- does not influences the development process
- makes the operation easier
- and makes low cost, since virtually no maintenance

Please visit our web page: www.JCT-ls.com







JCT
Process Analytics

Process Analytics

Process Solutions You Can Trust

JCT Process Analytics division was formed with the intention of supporting our key partners with customized applications. Acquisition of Zelentech helped us to provide customized **WATER IN OIL**, BS&W measurements along with selected liquid applications as oil in water and colorimetric measurements.

WATER IN OIL

-  Solutions for all applications
-  Reliable measurement
-  High accuracy
-  Economical



BYPASS SYSTEM

ZT100 S series inline water in oil measurement designed for use in bypass systems.



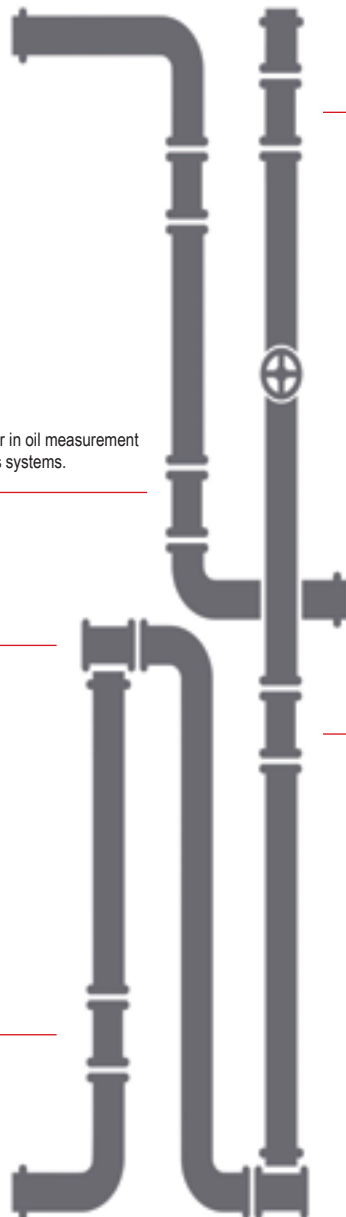
HIGH PRESSURE

ZT100 F series watercutmeter / BS&W analyzer for online measurement in the main line. Also applicable for high pressure applications.



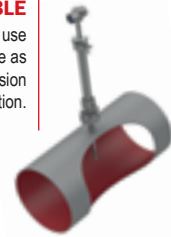
MULTIPLE

ZT100 I series water in oil monitor designed for multiple applications.



RETRACTABLE

ZT100 I series retractable for use directly in main line. Available as automatic retractable version and for manual operation.



STATIC MIXER

ZTMX static mixer to guarantee accurate and reliable measurement results. Because water and oil does not stay mixed.



Please visit our web page: www.JCT-pa.com



JCT
Process Analytics

Process Analytics

Process Solutions You Can Trust

Our **GAS ANALYZERS** are covering process applications where standard technologies are not sufficient. Flame Ionisation Detectors (FID) for measurement of organic carbons in gas, SIL2 and ATEX approved InSitu tuneable laser as well as thermal conductivity for e.g. H₂

GAS ANALYZERS



FID ANALYZERS FOR GASES

Heated FID unit to measure VOC in stacks meeting US EPA requirements.



THERMAL CONDUCTIVITY ANALYZERS

Zone 2 suitable thermal conductivity analyzer for measuring H₂ impurity and measuring H₂ in electrolysis process. Suitable for low levels ranges in PPM levels.



InSitu PROCESS LASER ANALYZERS

SIL2 and ATEX approved TDLAS for process measurement. Including NH₃ and more.

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Process Analytics

Process Analytics

Process Solutions You Can Trust

With the same philosophy of other **JCT** group companies, the **JCT PA** provides unique gas and liquid solutions to fill the product gaps of our key partners. The **JCT** Liquid Analyzers are helping the industry to get reliable measurement results and control their process.

LIQUID ANALYZERS



HEAVY METALS ANALYZERS

Heavy metals analyzer measuring Arsenic, Cadmium, and other heavy metals using non toxic reagents and no sampling system

FID ANALYZERS FOR STEAM AND CONDENSATE

Designed with our proprietary stripping system, the FID analyzer is engineered for measure VOC/THC in water, steam and condensate.



LIQUID TRANSMITTERS

Our ATEX/IECEx approved universal liquid transmitter suitable for connecting multiple sensors and used mainly in refinery effluent plants and industrial waste water treatment plants.



LIQUID SENSORS

Smart sensor with digital capabilities and suitable to install in hazardous areas.



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Air Quality Monitoring You Can Trust

Liquid Systems You Can Trust

Process Solutions You Can Trust

JCT Gas Sampling

JCT Analysentechnik GmbH
2700 Wiener Neustadt / AUSTRIA
T: +43 2622 87201 / sales@jct-gs.com
www.jct-gs.com

JCT NextGen AQMS

mlu-recordum Environmental Monitoring Solutions GmbH
2700 Wiener Neustadt / AUSTRIA
T: +43 2622 87201 / sales@jct-aq.com
www.jct-aq.com

JCT Liquid Sampling

manvia Steam Water Equipments S.L.,
3393 Gijón (Asturias) / SPAIN
M: +34 690983685 / sales@jct-ls.com
www.jct-ls.com

JCT MEIA Regions

JCT Middle East (FZC)
Sharjah / UAE
meia@jct.at / www.jct.at

JCT SE Asia Regions

Selangor / MALAYSIA
sea@jct.at / www.jct.at

JCT Americas Regions

JCT America Inc.
Los Angeles, California / USA
america@jct.at / www.jct.at

JCT Process Analytics

ZelenTech Pte Ltd
SINGAPORE 555859
sales@jct-pa.com / www.jct-pa.com

JCT Process Analytics

JCT Analysentechnik GmbH
2700 Wiener Neustadt / AUSTRIA
T: +43 2622 87201 / sales@jct-pa.at
www.jct-pa.at

JCT  GROUP

Air Water Process Measurements You Can Trust

Headquarter

Werner Heisenberg-Strasse 4

2700 Wiener Neustadt

AUSTRIA

www.jct.at