PICARRO

Product Catalog

Analytical Instruments and Solutions

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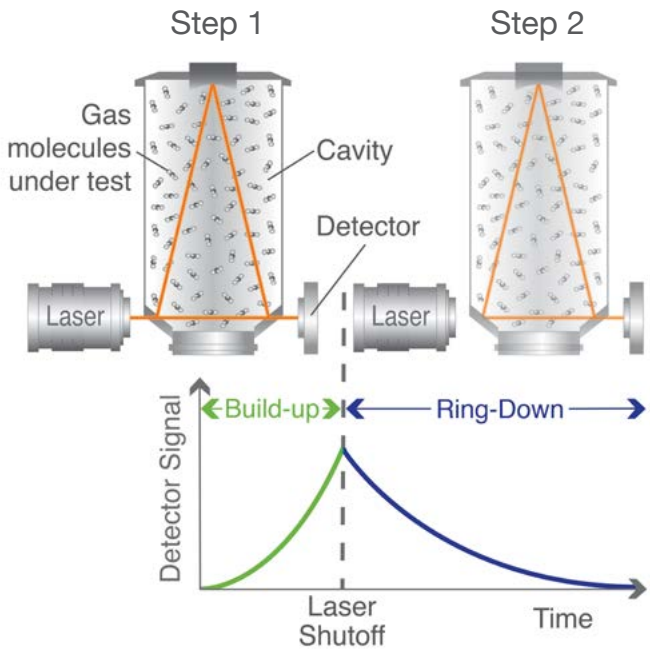
Cavity Ring-Down Spectroscopy (CRDS)

Applications requiring trace gas analysis include environmental monitoring, emissions monitoring, greener automotive engine development, semiconductor fabs, cleanroom technology and bio-pharmaceutical process monitoring. All these applications can benefit from a turnkey analyzer that provides real-time speed, high precision and sensitivity to parts per billion and beyond. And, from a practical standpoint, the ideal trace gas analyzer requires minimal or no sample preparation or dilution, and is contained in a rugged, compact platform with low operating costs. Specifically, the latter means no need for a trained technician and, optimally, the capability for remote, unmanned operation.

CRDS is the first trace-gas analysis instrumentation to meet all these needs, and it can even provide isotope ratios for environmental and biomedical applications. Just as important, the same Picarro CRDS analyzers can be used as unmanned remote monitors, industrial process sensors, and reference laboratory instruments, greatly simplifying transfer of standards and protocols. And the extraordinary low drift of these instruments means they can operate for months without recalibration in most applications.

CRDS Advantages

- Superb sensitivity, precision & accuracy with negligible drift
- Fast, continuous, real-time measurements with no interferences
- Large dynamic range with high linearity
- Field and laboratory deployable with no consumables
- Installed and operational in minutes
- Rugged and insensitive to changes in ambient temperature, pressure or vibration



Molecules Measured by Model

Greenhouse Gas Analyzers

MODEL	CO_2	CH_4	N_2O	H_2O	NH_3	CO
G2301	X	X		X		
G2401	X	X		X		X
G2401-*m*	X	X		X		X
G2508	X	X	X	X	s	
G2509	X	X	X	X	X	
PI5310			X	X		X

Trace Gas Analyzers

MODEL	CO_2	CH_4	H_2O	NH_3	H_2CO	H_2O_2	H_2S
G2204		X	X				X
G2307		s,sur	X		X		
PI2103	s,sur		X	X			
PI2124		s,sur	X			X	

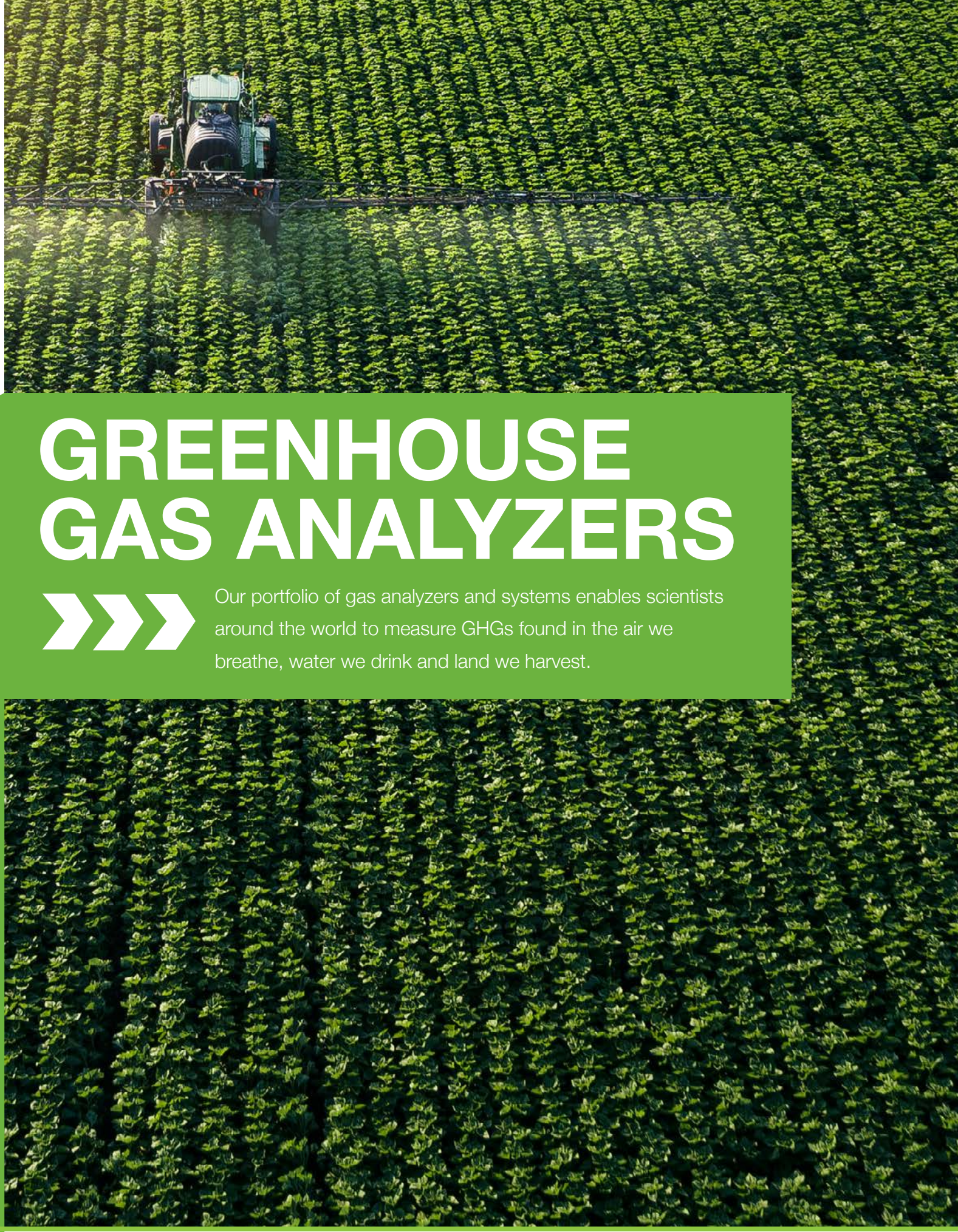
Gas Isotope Analyzers

	CO_2		CH_4		H_2O				N_2O			
MODEL	$[CO_2]$	$\delta^{13}C$	$[CH_4]$	$\delta^{13}C$	$[H_2O]$	$\delta^{2}H$	$\delta^{18}O$	$\delta^{17}O$	$\delta^{15}N$	$\delta^{15}N_\alpha$	$\delta^{15}N_\beta$	$\delta^{18}O$
G2131-*i*	X	X	X		X							
G2201-*i*	X	X	X	X	X							
PI5131-*i*									X	X	X	X
L2130-*i*			s		X	X	X					
L2140-*i*			s		X	X	X	X				

X *denotes a primary measurement,* **s** *denotes a supporting measurement.*

sur *denotes a surrogate gas used for validation of instrument performance, which may or may not be useful for a customer's measurement purposes, depending on precision requirements.*

All instruments measure water for correction purposes.



GREENHOUSE GAS ANALYZERS

Our portfolio of gas analyzers and systems enables scientists around the world to measure GHGs found in the air we breathe, water we drink and land we harvest.

G2301 Gas Concentration Analyzer

The Picarro G2301 gas concentration analyzer provides simultaneous, precise measurement of carbon dioxide (CO_2), methane (CH_4), and water (H_2O) vapor at parts-per-billion (ppb) sensitivity with negligible drift.

- Long-term stability for infrequent calibration
- Continuous measurement of three atmospheric trace gases
- Compliant with WMO and ICOS international ambient atmospheric monitoring requirements
- Water correction automatically reports dry gas mole fractions

Molecules Measured:

CO_2 CH_4 H_2O

Related Applications:

- Air Quality
- Atmospheric Science
- Emissions Quantification
- Agriculture & Soil Science

G2401 Gas Concentration Analyzer

The Picarro G2401 gas concentration analyzer provides simultaneous, precise measurement of carbon monoxide (CO), carbon dioxide (CO_2), methane (CH_4), and water (H_2O) vapor at parts-per-billion (ppb) sensitivity with negligible drift.

- Continuous measurement of four atmospheric trace gases
- Compliant with WMO and ICOS international ambient atmospheric monitoring requirements
- Water correction automatically reports dry gas mole fractions

Molecules Measured:

CO_2 CH_4 CO H_2O

Related Applications:

- Air Quality
- Atmospheric Science
- Emissions Quantification

G2401-*m* In-flight Gas Concentration Analyzer

The Picarro G2401-*m* gas concentration analyzer provides simultaneous, precise measurement of carbon monoxide (CO), carbon dioxide (CO_2), methane (CH_4), and water (H_2O) vapor at parts-per-billion (ppb) sensitivity with negligible drift.

- Continuous measurement of four atmospheric trace gases
- Allowing airborne measurements
- Rugged design for guaranteed performance during flight
- Water correction automatically reports dry gas mole fractions

Molecules Measured:

CO_2 CH_4 CO H_2O

Related Applications:

- Air Quality
- Atmospheric Science
- Emissions Quantification

G2508 Gas Concentration Analyzer

The Picarro G2508 gas concentration analyzer provides simultaneous, precise measurement of nitrous oxide (N_2O), methane (CH_4), carbon dioxide (CO_2), ammonia (NH_3), and water (H_2O) vapor.

- Parts-per-billion sensitivity for excellent rate-of-rise quantification
- Rapid response time and continuous measurements provide data at high temporal resolution
- Operates in open or closed systems and integrates easily with chamber systems
- Water correction automatically reports dry gas mole fractions

Molecules Measured:

CO_2 CH_4 N_2O H_2O NH_3

Related Applications:

- Agriculture & Soil Science
- Ecology
- Emissions Quantification

G2509 Gas Concentration Analyzer

The Picarro G2509 gas concentration analyzer provides simultaneous, precise measurement of nitrous oxide (N_2O), methane (CH_4), carbon dioxide (CO_2), ammonia (NH_3), and water (H_2O) vapor.

- Optimized flow path for fast ammonia response
- Wide CH_4 dynamic range up to 800 ppm
- Parts-per-billion sensitivity for excellent rate-of-rise quantification
- Rapid response time and continuous measurements provide data at high temporal resolution

Molecules Measured:

CO_2 CH_4 N_2O H_2O NH_3

Related Applications:

- Agriculture & Soil Science
- Ecology
- Emissions Quantification

PI5310 Gas Concentration Analyzer

The Picarro PI5310 gas concentration analyzer provides simultaneous, precise measurements of nitrous oxide (N_2O), carbon monoxide (CO), and water (H_2O) vapor at parts-per-trillion (ppt) sensitivity with negligible drift.

- Continuous measurement of N_2O and CO
- Mid-IR CRDS for high precision and low drift analysis
- Compliant with WMO and ICOS international ambient atmospheric monitoring requirements
- Water correction automatically reports dry gas mole fractions

Molecules Measured:

N_2O CO H_2O $^{13}CO_2$

Related Applications:

- Air Quality
- Atmospheric Science
- Emissions Quantification

denotes a primary measurement *denotes a supporting measurement*

TRACE GAS ANALYZERS

Our portfolio of gas analyzers enables researches and industry professionals around the world to measure trace gases in ambient air, along the fenceline and at emissions sources.

G2204 Gas Concentration Analyzer

The Picarro G2204 gas concentration analyzer provides simultaneous, precise measurement of hydrogen sulfide (H_2S) and methane (CH_4) at parts-per-billion (ppb) sensitivity with negligible drift for emissions measurements from landfills, refineries, paper mills, or industrial plants.

- Continuous measurment of CH_4 and H_2S concentrations
- Use for stationary monitoring or beyond the fence line remote emissions quantification
- Rugged and insensitive to changes in ambient temperature

Molecules Measured:

H_2S CH_4 H_2O

Related Applications:

- Air Quality
- Emissions Quantification
- Health & Safety
- Petrochemical

G2307 Gas Concentration Analyzer

The Picarro G2307 gas concentration analyzer provides precise, real-time measurement of formaldehyde (H_2CO), methane (CH_4), and water (H_2O) vapor.

- Fast, continuous, real-time measurement of H_2CO
- Long-term stability for infrequent calibration
- Small footprint, field or lab deployable with no consumables required
- Water correction automatically reports dry gas mole fractions

Molecules Measured:

H_2CO H_2O CH_4

Related Applications:

- Air Quality
- Atmospheric Science
- Emissions Quantification
- Health & Safety

PI2103 Gas Concentration Analyzer

The Picarro PI2103 gas concentration analyzer provides precise, real-time measurement of ammonia (NH_3) and water (H_2O) vapor. It incorporates coated components in the critical gas pathway.

- Fast, continuous, real-time measurement of NH_3
- Long-term stability for infrequent calibration
- Small footprint, field or lab deployable with no consumables required
- Water correction automatically reports dry gas mole fractions
- Unprecedented response time

Molecules Measured:

NH_3 H_2O CO_2

Related Applications:

- Air Quality
- Atmospheric Science
- Emmissions Qualification
- Agriculture & Soil Science
- Petrochemical

PI2124 Gas Concentration Analyzer

The Picarro PI2124 gas concentration analyzer measures hydrogen peroxide (H_2O_2) levels as low as 3 parts-per-billion (ppb) to help avoid oxidation and safeguard drug stability.

- Continuous, real-time H_2O_2 monitoring
- Lower Detection Limit: <3 ppb (5 minutes averaging)
- Precision: <0.5 ppb (1σ, 5 minutes averaging)
- Rise time (10–90%) and fall time (90–10%) is <2 minutes
- Software designed to assist with 21 CFR part 11 compliance

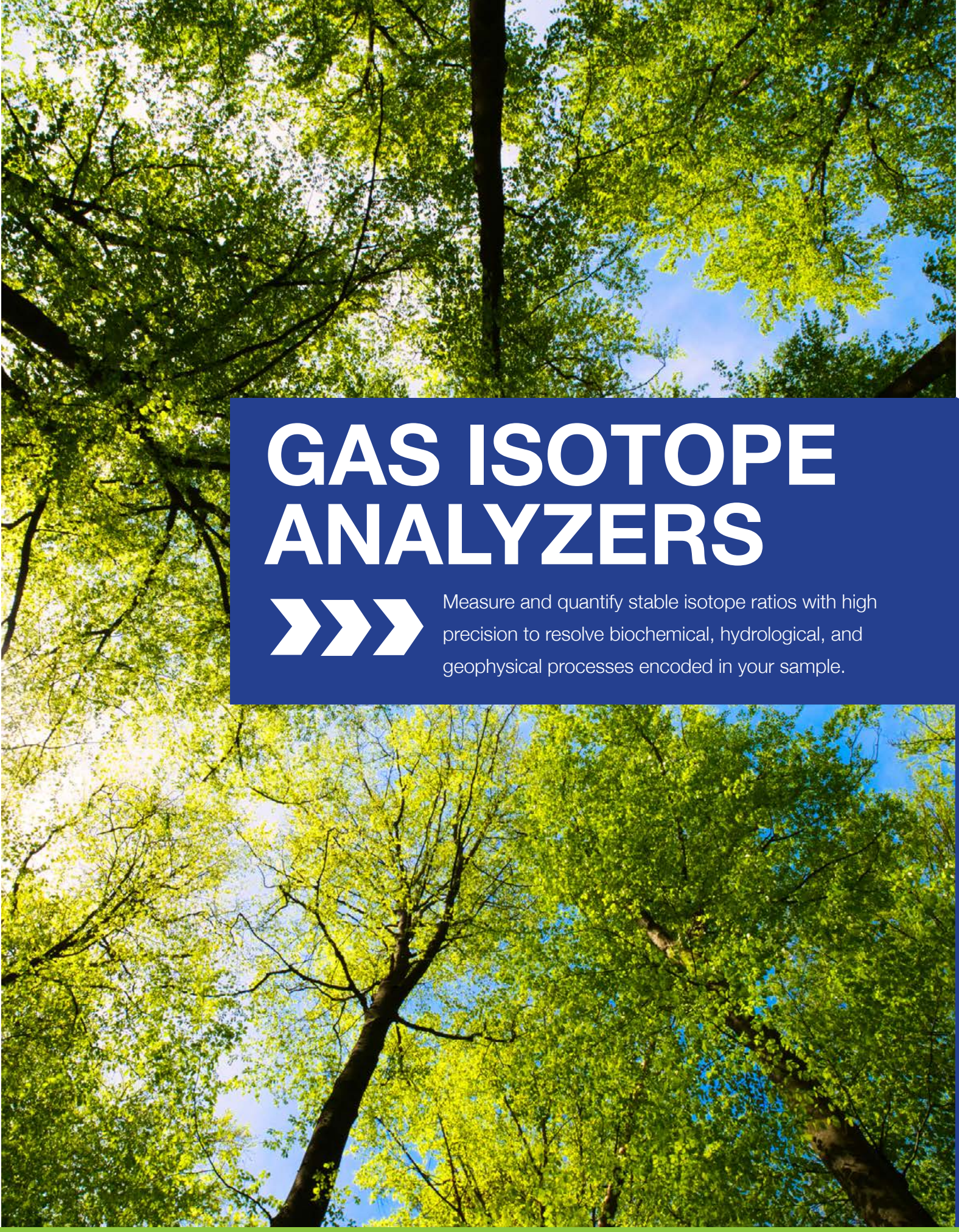
Molecules Measured:

H_2O_2 H_2O CH_4

Related Applications:

- Petrochemical
- Pharmaceutical

denotes a primary measurement *denotes a supporting measurement*



GAS ISOTOPE ANALYZERS

Measure and quantify stable isotope ratios with high precision to resolve biochemical, hydrological, and geophysical processes encoded in your sample.

G2131-*i* Isotope and Gas Concentration Analyzer

The Picarro G2131-*i* isotope and gas concentration analyer precisely and continuously measures $\delta^{13}C$ in carbon dioxide (CO_2) and CO_2 and CH_4 gas concentration for a range of applications from atmospheric and ocean science research to food and beverage origin and authenticity.

- Measure $\delta^{13}C$ in CO_2 at >0.1‰ precision
- Pair with peripherals to measure $\delta^{13}C$ from many sample types
- Simultaneously measure CO_2 and CH_4 gas concentrations
- Measure H_2O vapor and report dry mole fractions

Molecules Measured:

$\delta^{13}C$ in CO_2 | CO_2 | CH_4 | H_2O

Related Applications:

- Agricultural & Soil Science
- Ecology
- Ocean Science
- Paleoclimatology
- Food & Beverage
- Petrochemical

G2201-*i* Isotope Analyzer

The Picarro G2201-*i* isotope analyzer precisely and continuously measures $\delta^{13}C$ in carbon dioxide (CO_2) and in methane (CH_4) to help understand the biological and geological mechanisms that produce and consume CO_2.

- Only field-deployable analyzer for simultaneous high-precision $\delta^{13}C$ measurements in CO_2 and CH_4
- Three measurement modes: CO_2 only, CH_4 only, and CO_2 and CH_4 combined
- Excellent precision at a fraction of IRMS operating cost—less calibration, less maintenance, no consumables

Molecules Measured:

$\delta^{13}C$ in CO_2

$\delta^{13}C$ in CH_4

CO_2 | CH_4 | H_2O

Related Applications:

- Atmospheric Science
- Emissions Quantification
- Agricultural & Soil Science
- Ecology
- Food & Beverage
- Petrochemical

PI5131-*i* Isotope and Gas Concentration Analyzer

Picarro PI5131-*i* isotope and gas concentration analyzer precisely measures site-specific and bulk $\delta^{15}N$ and $\delta^{18}O$ in nitrous oxide (N_2O) for applications ranging from field studies of greenhouse gas emissions to laboratory investigations of the global nitrogen cycle.

- Measure $\delta^{15}N$, $\delta^{15}N_\alpha$, $\delta^{15}N_\beta$ with <0.7‰ precision
- Measure $\delta^{18}O$ in N_2O with <0.7‰ precision
- Cryogen-free, continuous operation
- Field-station and laboratory deployable for real-time or grab-sample measurements

Molecules Measured:

$\delta^{15}N$ in N_2O

$\delta^{15}N_\beta$ in N_2O

Related Applications:

- Agricultural & Soil Science
- Atmospheric Science
- Ecology

denotes a primary measurement *denotes a supporting measurement*

L2130-*i* Isotope and Gas Concentration Analyzer

The L2130-*i* isotopic water analyzer enables high-precision measurements of $\delta^{18}O$ and $\delta^{2}H$ from liquids, vapor, and solids, using a variety of Picarro peripherals.

- Minimal drift: calibrate once per day while measuring with sub per mil certainty
- Flexibility to measure water samples from liquids, vapor, and solids
- Small footprint, robust design, and intuitive user-interface
- Unparalleled speed allows processing of up to 900 injections per day

Molecules Measured:

$\delta^{18}O$ in H_2O | $\delta^{2}H$ in H_2O | CH_4

Related Applications:

- Atmospheric Science
- Ecology
- Hydrology
- Ocean Science
- Paleoclimatology
- Food & Beverage
- Petrochemical

L2140-*i* Isotope and Gas Concentration Analyzer

The Picarro L2140-*i* isotopic water analyzer enables simultaneous measurements of $\delta^{18}O$, $\delta^{17}O$, $\delta^{2}H$ and determines ^{17}O-excess for paleoclimate, (eco) hydrology, and atmospheric science applications.

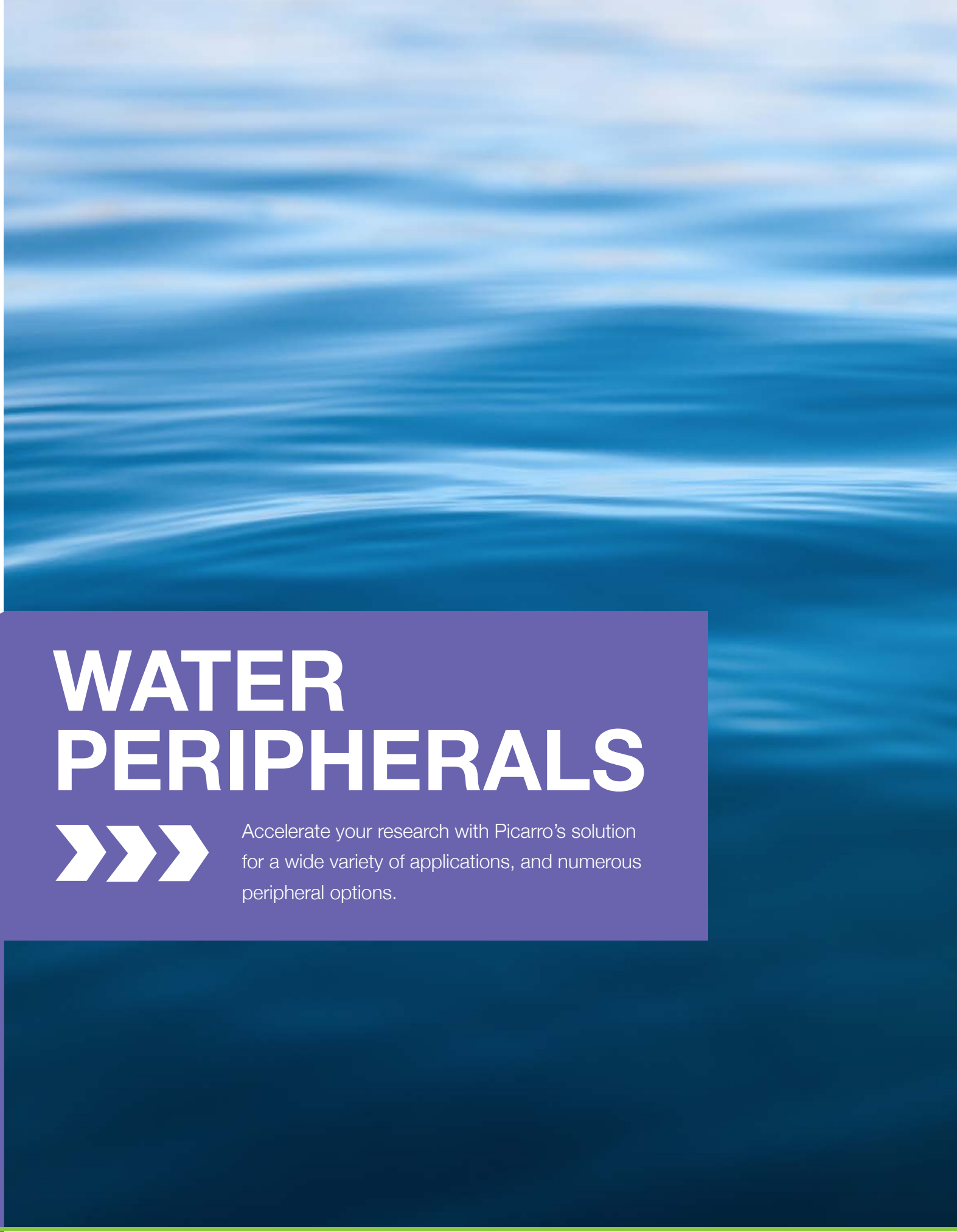
- Streamlined, simple, and simultaneous measurements of $\delta^{18}O$, $\delta^{17}O$, $\delta^{2}H$, and ^{17}O-excess in liquids and vapor
- Average to <15 per meg precision on ^{17}O-excess
- Unparalleled speed allows processing of up to 900 injections per day

Molecules Measured:

$\delta^{18}O$ in H_2O | $\delta^{2}H$ in H_2O | $\delta^{17}O$ in H_2O | $\delta^{17}O$-Excess | CH_4

Related Applications:

- Atmospheric Science
- Ecology
- Hydrology
- Ocean Science
- Paleoclimatology



WATER PERIPHERALS

Accelerate your research with Picarro's solution for a wide variety of applications, and numerous peripheral options.

denotes a primary measurement *denotes a supporting measurement*

High Precision Vaporizer and Liquid Autosampler

The Picarro A0211 Vaporizer and A0340 Autosampler offer exceptional precision with minimal maintenance. These peripherals fully integrate with the L2130-*i* and L2140-*i* water isotope analyzers, including onboard software control.

- Complete solution for automated analysis
- Choice of operating modes: high precision or high throughput
- Onboard software controls both Autosampler and Vaporizer
- Sample analysis conducted automatically with data reported per injection

Compatibility:

- L2130-*i*
- L2140-*i*

Related Applications:

- Hydrology
- Ocean Science
- Paleoclimatology

Micro-Combustion Module (MCM)

The Picarro A0214 Micro-Combustion Module effectively removes spectral interference for commonly occurring alcohols and plant products, including multicomponent mixtures of alcohols, terpenes, and green leaf volatiles.

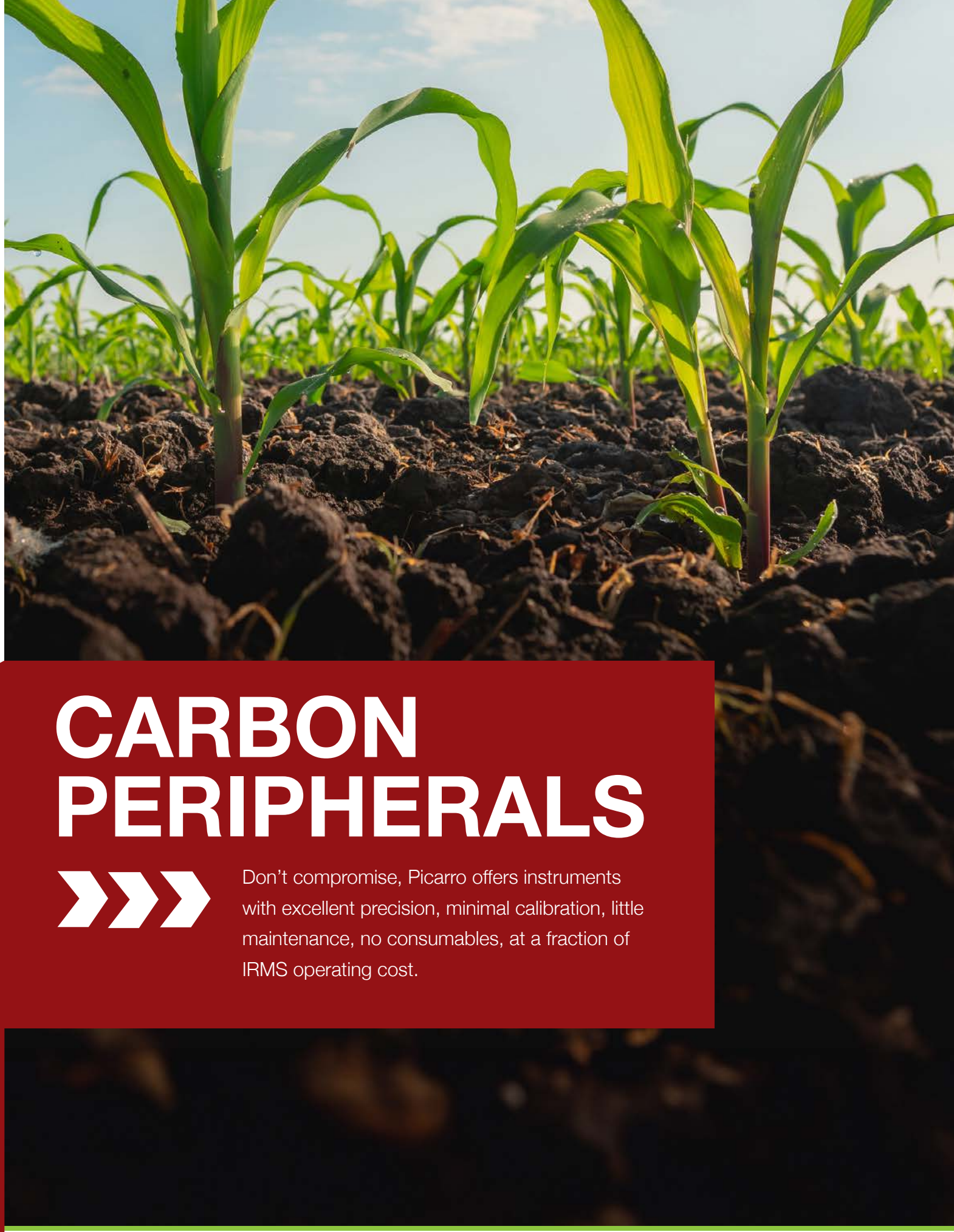
- Treat samples inline to decompose interfering organics
- Improve data quality for water isotope analysis
- Easily deploy in a laboratory or in the field

Compatibility:

- L2130-*i*
- L2140-*i*

Related Applications:

- Hydrology
- Ocean Science



CARBON PERIPHERALS

Don’t compromise, Picarro offers instruments with excellent precision, minimal calibration, little maintenance, no consumables, at a fraction of IRMS operating cost.

Closed System Measurement Package

The Picarro A0701/A0702 Closed System Measurement Package enables Picarro analyzers to provide high-precision concentration and isotope ratio measurements for experiments conducted in closed, recirculating systems.

- Real-time, non-destructive concentration and isotope studies
- Have confidence in your results; minimal efflux and influx
- Ideal for small sample work; perfectly matched to our small cavity technology
- Rugged, robust analyzers for use in the field or in the lab

**bottle not included*

Compatibility:

- G2131-*i*
- G2201-*i*
- G2301
- G2401
- G2508

Related Applications:

- Ecology
- Agricultural & Soil Science

Combustion Module (CM)

The Picarro A0201 Combustion Module enables $\delta^{13}C$ measurements of bulk samples - soils or liquid organic materials. The samples are combusted within the CM and the CO_2 that is produced flows to a Picarro analyzer to measure $\delta^{13}C$ for bulk stable isotope analysis (BSIA).

- The CM-CRDS system can automatically process up to 148 samples at a rate of one sample every 10 minutes
- The precision of the system is better than 0.3‰
- Control and data recording are managed by software on the Picarro analyzer

Compatibility:

- G2131-*i*
- G2201-*i*

Related Applications:

- Air Quality
- Ecology
- Agriculture & Soil Science
- Paleoclimatology
- Food & Beverage
- Petrochemical

Caddy™ Continuous Flow Interface

The Picarro A2100 Caddy Continuous Flow Interface connects commercially available solid and liquid bulk sample preparation instruments—including the Picarro Combustion Module—to Picarro analyzers for high-precision carbon isotope (^{13}C) measurements.

- Fully automated for high-throughput operation
- Low-cost, simple operation
- Laboratory and field deployable

Compatibility:

- G2131-*i*
- G2201-*i*

Related Applications:

- Air Quality
- Ecology
- Agriculture & Soil Science
- Paleoclimatology
- Food & Beverage
- Petrochemical
- Hydrology
- Ocean Science

Sage, Gas Autosampler

The Picarro A0344 Sage gas autosampler streamlines discrete sample analysis when paired with Picarro gas analyzers. Featuring a 150-position-vial rack for 12mL headspace vials, this system enables the analysis of up to 160 samples per day.

- Complete solution for automated analysis
- Compatible software for seamless operation
- Sample analysis conducted automatically with data reported

Compatibility:

- G2131-*i*
- G2201-*i*
- G5131-*i*
- PI5131-*i*
- G2301
- G2401
- G2508
- G5310
- PI5310

Related Applications:

- Air Quality
- Ecology
- Agricultural & Soil Science
- Health & Safety
- Petrochemical
- Hydrology
- Ocean Science

AUTOMATED SAMPLING SOLUTIONS

The Picarro Automated Sampling Solutions dramatically enhance the flexibility of Picarro systems and analyzers by providing unparalleled discrete or continuous automated sample-data collection.

16-Port Distribution Manifold

The Picarro A0311 16-Port Distribution Manifold is ideal for tall tower research as well as for soil chamber applications and other functions where multiport sampling is essential.

- Sequentially samples up to 16 sources
- Significantly enhances research flexibility and analyzer capabilities
- Integrates seamlessly with Picarro gas analyzers and software
- Quick and easy setup and simple, maintenance-free design
- Suitable for closed loop when two 16-port are coupled

Compatibility:

- All Picarro analyzers

**Except those mentioned for A0311-s*

Related Applications:

- Air Quality
- Atmospheric Science
- Emissions Quantification
- Agricultural & Soil Science
- Ecology
- Petrochemical
- Health and Safety

16-Port Distribution Manifold (SilcoNert)

The Picarro A0311-*s* 16-Port Distribution Manifold is designed to optimize response time in the presence of reactive gases. It uses SilcoNert coated components and an additional vacuum pump to maintain flow in each of its 16 sampling channels.

- Flow through valve for reduced memory effects
- SilcoNer™ coating improves response time
- Simple, maintenance free design
- Sets up in minutes with standard tools

Compatibility:

- G2509
- G2204
- G2307
- PI2124
- PI2103

Related Applications:

- Air Quality
- Agricultural & Soil Science
- Health and Safety
- Pharmaceutical

Sage, Gas Autosampler

The Picarro A0344 Sage gas autosampler streamlines discrete sample analysis when paired with Picarro gas analyzers. Featuring a 150-position-vial rack for 12mL headspace vials, this system enables the analysis of up to 160 samples per day.

- Complete solution for automated analysis
- Compatible software for seamless operation
- Sample analysis conducted automatically with data reported

Compatibility:

- G2131-*i*
- G2201-*i*
- G5131-*i*
- PI5131-*i*
- G2301
- G2401
- G2508
- G5310
- PI5310

Related Applications:

- Air Quality
- Ecology
- Agricultural & Soil Science
- Health & Safety
- Petrochemical
- Hydrology
- Ocean Science

denotes a primary measurement *denotes a supporting measurement*

Annual Service Plans

Expert support. Greater peace of mind.

Protect your investment with ongoing support for your Picarro analyzer.

Essential

Basic support and maintenance

- Annual maintenance kit
- Repair and parts discounts
- Two-business-day initial response

MOST POPULAR

Premium

Greater protection and convenience

- Covered repairs and parts*
- Annual Remote Health Check
- One-business-day initial response

Commercial

Support for critical operations

- Annual on-site maintenance visit
- Complimentary loaner analyzer*
- Same-business-day initial response

Selected benefits shown. Visit our website for full coverage details and plan comparisons.

Find the right plan for your analyzer. | Ask your sales representative.

*Coverage and eligibility vary by analyzer and plan. Restrictions apply. Eligible mid-IR analyzers use a separate Premium PI5100 Service Plan.

Applications

*These are guidelines. Other analyzers may also be suitable for a particular application.

AIR QUALITY

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G2204	Hydrogen Sulfide (H_2S, CH_4)	10
G2301	CO_2, CH_4, H_2O	7
G2307	Formaldehyde (H_2CO, CH_4 and H_2O)	10
G2401	CO, CO_2, CH_4, H_2O	7
G2401-*m*	Flight-ready CO, CO_2, CH_4, H_2O	7
PI2103	Ammonia (NH_3)	10
PI5310	N_2O, CO, H_2O	8

ATMOSPHERIC SCIENCE

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G2307	Formaldehyde (H_2CO, CH_4 and H_2O)	10
G2401	CO, CO_2, CH_4, H_2O	7
G2401-*m*	Flight-ready CO, CO_2, CH_4, H_2O	7
PI2103	Ammonia (NH_3)	10
PI5131-*i*	$\delta^{15}N$ and $\delta^{18}O$ in N_2O	12
PI5310	N_2O, CO, H_2O	8
L2130-*i*	$\delta^{18}O$, $\delta^{2}H$ in H_2O	13
L2140-*i*	$\delta^{18}O$, $\delta^{17}O$, $\delta^{2}H$ and ^{17}O-excess in H_2O	13

EMISSIONS QUANTIFICATION

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G2204	Hydrogen Sulfide (H_2S, CH_4)	10
G2301	CO_2, CH_4, H_2O	7
G2307	Formaldehyde (H_2CO, CH_4 and H_2O)	10
G2401	CO, CO_2, CH_4, H_2O	7
G2401-*m*	Flight-ready CO, CO_2, CH_4, H_2O	7
G2508	N_2O, CH_4, CO_2, NH_3, H_2O	8
G2509	N_2O, CH_4, CO_2, NH_3, H_2O	8
PI2103	Ammonia (NH_3)	10
PI5310	N_2O, CO, H_2O	8

AGRICULTURE & SOIL SCIENCE

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G2301	CO_2, CH_4, H_2O	7
G2508	N_2O, CH_4, CO_2, NH_3, H_2O	8
G2509	N_2O, CH_4, CO_2, NH_3, H_2O	8
PI2103	Ammonia (NH_3)	10
PI5131-*i*	$\delta^{15}N$ and $\delta^{18}O$ in N_2O	12

ECOLOGY

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G2131-*i*	$\delta^{13}C$ in CO_2	12
G2201-*i*	$\delta^{13}C$ in CH_4 and CO_2	12
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G2509	N_2O, CH_4, CO_2, NH_3, H_2O	8
PI5131-*i*	$\delta^{15}N$ and $\delta^{18}O$ in N_2O	13
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L2140-*i*	$\delta^{18}O$, $\delta^{17}O$, $\delta^{2}H$ and ^{17}O-excess in H_2O	13

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L2140-*i*	$\delta^{18}O$, $\delta^{17}O$, $\delta^{2}H$ and ^{17}O-excess in H_2O	13

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L2140-*i*	$\delta^{18}O$, $\delta^{17}O$, $\delta^{2}H$ and ^{17}O-excess in H_2O	13

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G2201-*i*	$\delta^{13}C$ in CH_4 and CO_2	12
L2130-*i*	$\delta^{18}O$, $\delta^{2}H$ in H_2O	13

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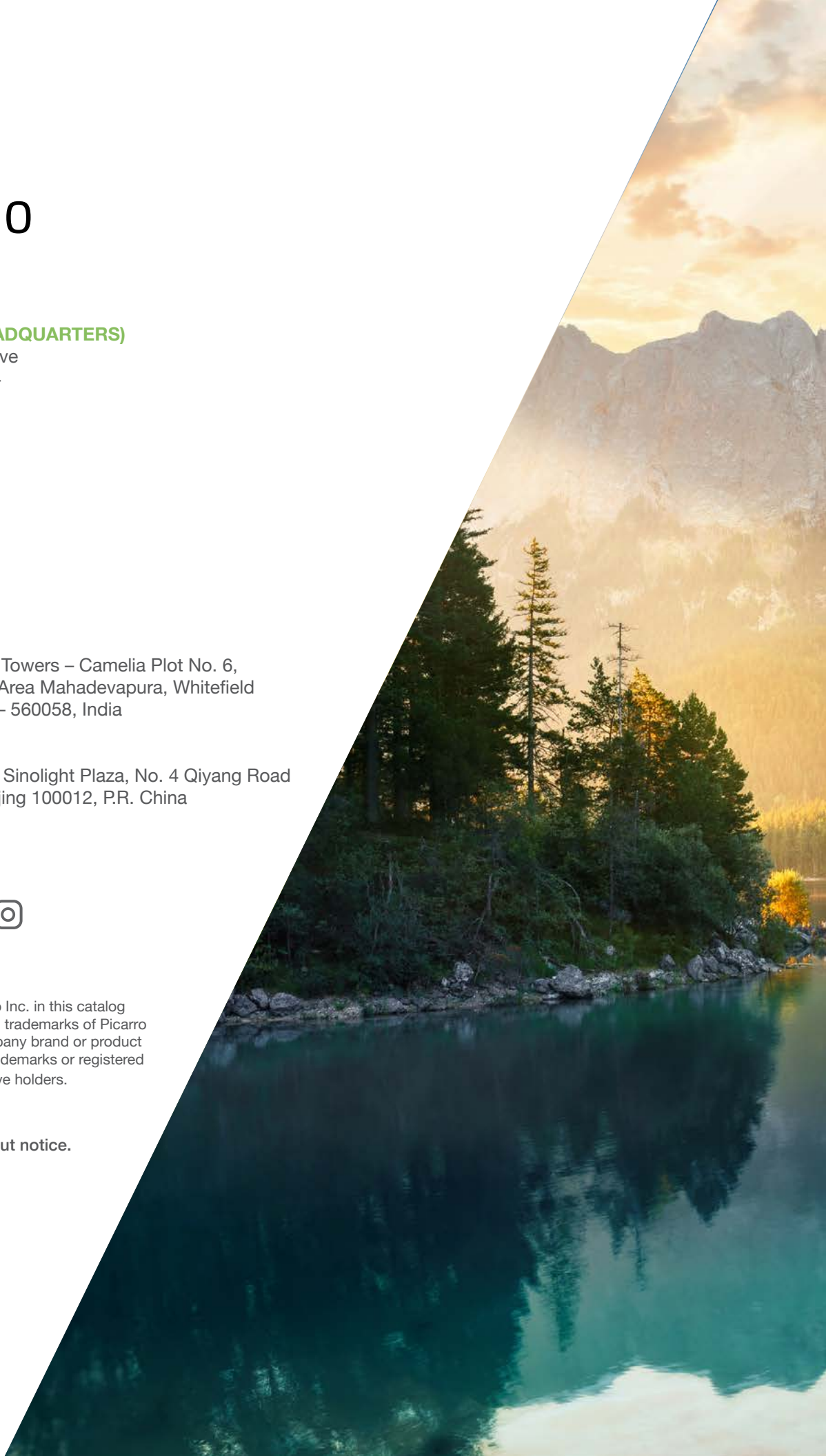
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