Company profile

Dew point, oxygen and gas analysis since 1995

YORK Instrument has designed and manufactured gas analysis instruments in China since 1995. We specialise in three measurements: **moisture (dew point)**, **oxygen** and **CO_2**, from portable field instruments to in-line analyzers, laboratory reference hygrometers and calibration systems.

COMPANY

Headquarters	Beijing York Instrument Technology Development Co., Ltd., Beijing, China
Manufacturing and export	Chengdu York Instrument Co., Ltd., Chengdu, China
Middle East	Regional Director based in Dubai, UAE, covering the GCC: quotations, technical selection and support for partners and end users
Founded	1995

PRODUCT LINES

Dew point / moisture
Metal-oxide analyzers down to −110 °C frost point: portable DPT-600 Plus, in-line DPT-830, explosion-proof DPT-990EX

Chilled-mirror hygrometers
DM series from −30 °C to −90 °C frost point, including the DM9900 laboratory reference

Oxygen
Trace (0.01 ppm to 25%) and percent (0–100%) O_2, portable and in-line; explosion-proof PGA500-EX

CO_2
NDIR analyzers PGA520 (in-line) and PGA620 (portable)

Calibration
DC1000 dry gas generator, DC2000 low-humidity generator, YKDC220 calibration system

Systems
Sampling systems and analyzer cabinets, configured per project

CERTIFICATIONS

Explosion protection	Explosion-proof PGA500-EX (Ex db IIC T6 Gb) and DPT-990EX (Ex d IIC T4 Gb); intrinsically safe portable DPT-600 Plus-EX (Ex ia IIC T4 Ga). Certificate details are provided with quotations.
CE and RoHS	DM9200, DM9600PL, DM9700 and DM9900 chilled-mirror hygrometers
Calibration	Calibration certificate available for the DM9900 (chargeable)

WORKING WITH PARTNERS

Partners	Distributors and system integrators in the GCC, with partner pricing
Lead time	Typically 6–8 weeks
Warranty	12 months from shipment
Documents	English datasheets, certificates and application notes for the Gulf process industries; see www.yorkinstrument.ae

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FACTORY PRECISION. LOCAL SUPPORT.
Dew Point · Oxygen · Gas Analysis

Oxygen analyzers

Trace and percent O_2 · portable and in-line · electrochemical



POA200

PORTABLE TRACE OXYGEN ANALYZER

Range	0.01 ppm to 25% O_2
Principle	Electrochemical
Sample handling	Built-in metering valve, flow meter and 4-way selection (ON/OFF) valve
Interface	USB-C data interface
Power	Rechargeable battery
Area	Non-hazardous areas



POA300

PORTABLE PERCENT OXYGEN ANALYZER

Range	0 to 100% O_2
Principle	Electrochemical
Sample handling	Built-in metering valve and flow meter
Interface	USB-C data interface
Power	Rechargeable battery
Area	Non-hazardous areas

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Specifications are confirmed per order. Issue 10/2026.

Oxygen analyzers

Trace and percent O_2 · portable and in-line · electrochemical



PGA500

IN-LINE TRACE OXYGEN ANALYZER

Range	0.01 ppm to 25% O_2
Principle	Electrochemical
Sample handling	Built-in 4-way selection (ON/OFF) valve
Outputs	Analog output, digital output, alarm relay
Power	AC or DC supply
Hazardous area	Use the PGA500-EX (Ex db IIC T6 Gb)



PGA530

IN-LINE PERCENT OXYGEN ANALYZER

Range	0 to 100% O_2
Principle	Electrochemical
Outputs	Analog output, digital output, alarm relay
Power	AC or DC supply
Typical use	Nitrogen generator purity, inerting and blanketing

Selection notes

- Trace O_2 in nitrogen, argon and other inert or product gases: POA200 (portable) or PGA500 (in-line).
- Percent O_2, e.g. nitrogen generator purity: POA300 (portable) or PGA530 (in-line).
- Electrochemical sensors are not recommended in a CO_2 background or in acid gases (H_2S, HCl, SO_2).
- In hydrogen and hydrocarbon gases the sensor can be used; expected sensor life is about 12 months.
- Please send gas composition, range, pressure and quantity for a model and price confirmation.

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Dew Point · Oxygen · Gas Analysis

Dew point analyzers

Metal-oxide moisture measurement down to −110 °C frost point



DPT-600 Plus

PORTABLE TRACE MOISTURE ANALYZER

Range	−110 °C frost point to +20 °C dew point
Sensor	Nano-porous metal-oxide film sensor
Sample handling	Built-in metering valve, flow meter and sensor desiccant cartridge
Interface	USB-C data interface
Power	Rechargeable battery
Hazardous area	Intrinsically safe version DPT-600 Plus-EX (Ex ia IIC T4 Ga); specify when ordering



DPT-830

IN-LINE DEW POINT ANALYZER

Range	−110 °C frost point to +20 °C dew point
Sensor	Nano-porous metal-oxide film sensor
Outputs	Analog output, digital output, alarm relay
Power	AC or DC supply
Hazardous area	Use the DPT-990EX (Ex d IIC T4 Gb)

Selection notes

- Typical uses: compressed air (ISO 8573-1 classes), nitrogen and other industrial gases, natural gas, dryer outlets, battery dry rooms.
- Gas phase only. Maximum sample pressure 4 barg: we recommend measuring at reduced (near-atmospheric) pressure and using the built-in conversion to line-pressure dew point.
- For natural gas containing glycol or methanol, a filter is fitted upstream of the sensor.
- For a laboratory reference, see our chilled-mirror hygrometers (DM series).

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Dew Point · Oxygen · Gas Analysis

CO_2 analyzers

NDIR CO_2 measurement · portable and in-line



PGA520

IN-LINE CO_2 ANALYZER

Principle	NDIR infrared
Ranges	Selectable: 0–5000 ppm, 0–5%, 0–20%, 0–30%, 0–50% or 0–100% CO_2
Accuracy	Linearity ±2% FS, repeatability ±1% FS
Outputs	Analog output, digital output, alarm relay
Power	AC or DC supply
Area	Non-hazardous areas only



PGA620

PORTABLE CO_2 ANALYZER

Principle	NDIR infrared
Ranges	Selectable, from 0–5000 ppm up to 0–100% CO_2
Sample handling	Built-in metering valve and flow meter
Interface	USB-C data interface
Power	Rechargeable battery
Area	Non-hazardous areas only

Selection notes

- Best suited to percent-level CO_2 and ranges such as 0–5000 ppm, e.g. CO_2 in breathing and medical air, process and enclosure monitoring.
- Linearity is ±2% of full scale; for specifications at or below 50 ppm, or for purity certification of high-purity CO_2, please ask us for an alternative.
- No explosion-proof version: install in a safe area.

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FACTORY PRECISION. LOCAL SUPPORT.
Dew Point · Oxygen · Gas Analysis

Explosion-proof analyzers

Dew point and oxygen for hazardous areas



DPT-990EX

EXPLOSION-PROOF IN-LINE DEW POINT ANALYZER

Range	−110 °C frost point to +20 °C dew point
Sensor	Nano-porous metal-oxide film sensor
Protection	Ex d IIC T4 Gb, aluminium alloy housing
Certificate	Details sent with quotations
Outputs	Analog output, digital output, alarm relay
Power	AC or DC supply



PGA500-EX

EXPLOSION-PROOF IN-LINE TRACE OXYGEN ANALYZER

Range	0.01 ppm to 25% O_2
Principle	Electrochemical
Protection	Ex db IIC T6 Gb / Ex tb IIIC T80 °C Db, aluminium alloy housing
Certificate	Details sent with quotations
Outputs	Analog output, digital output, alarm relay
Power	AC or DC supply

Notes

- For portable dew point measurement in hazardous areas, use the intrinsically safe DPT-600 Plus-EX (Ex ia IIC T4 Ga).
- Please tell us the area classification and the certificates your project requires.
- Copies of certificates are provided with quotations.

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FACTORY PRECISION. LOCAL SUPPORT.
Dew Point · Oxygen · Gas Analysis

Calibration and reference hygrometers

Chilled-mirror references and dew point generators for moisture calibration



DM9900

HIGH-PRECISION CHILLED-MIRROR HYGROMETER

Range	−90 °C frost point to +20 °C dew point
Accuracy	Better than ±0.2 °C near −90 °C frost point
Features	Refrigeration system; internal pressure sensor and electronic flow meter; VCR fittings
Outputs	Three analog outputs, alarm output, USB-C and RS485 (Modbus RTU), SD-card data logging
Compliance	CE, RoHS
Calibration	Calibration certificate available (chargeable)



DM9700

PRECISION CHILLED-MIRROR HYGROMETER

Range	−70 °C frost point to +20 °C dew point
Features	Air cooling; internal pressure sensor and electronic flow meter; 80–264 VAC
Outputs	Three analog outputs, alarm output, USB-C and RS485 (Modbus RTU), SD-card data logging
Compliance	CE, RoHS

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FACTORY PRECISION. LOCAL SUPPORT.
Dew Point · Oxygen · Gas Analysis

Calibration and reference hygrometers

Chilled-mirror references and dew point generators for moisture calibration



DC1000

DRY GAS GENERATOR

Principle	Pressure swing adsorption
Output	Up to 10 NL/min of dry air, below 1 ppmv (−75 °C dew point) or better
Connections	1/4" stainless steel compression fittings



DC2000

LOW-HUMIDITY GENERATOR

Principle	Flow-divided mixing with four electronic mass flow controllers
Stability	Fluctuation less than ±0.2 °C frost point
Set points	Multiple user-configurable calibration points
Outlets	Three: one for the reference hygrometer, two for instruments under calibration
Connections	1/4" stainless steel compression fittings

YKDC220 low-humidity calibration system

- A 19" rack system combining an oil-free compressor system (YK-2×750-55), the DC1000 dry gas generator, the DC2000 low-humidity generator and a reference chilled-mirror hygrometer (DM9700, DM9800 or DM9900).
- Used to calibrate dew point analyzers and transmitters in-house. Configured and quoted per project.

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