

PRODUCT BROCHURE

GO-cart™

MOBILE H₂O & O₂ ANALYTICAL CART



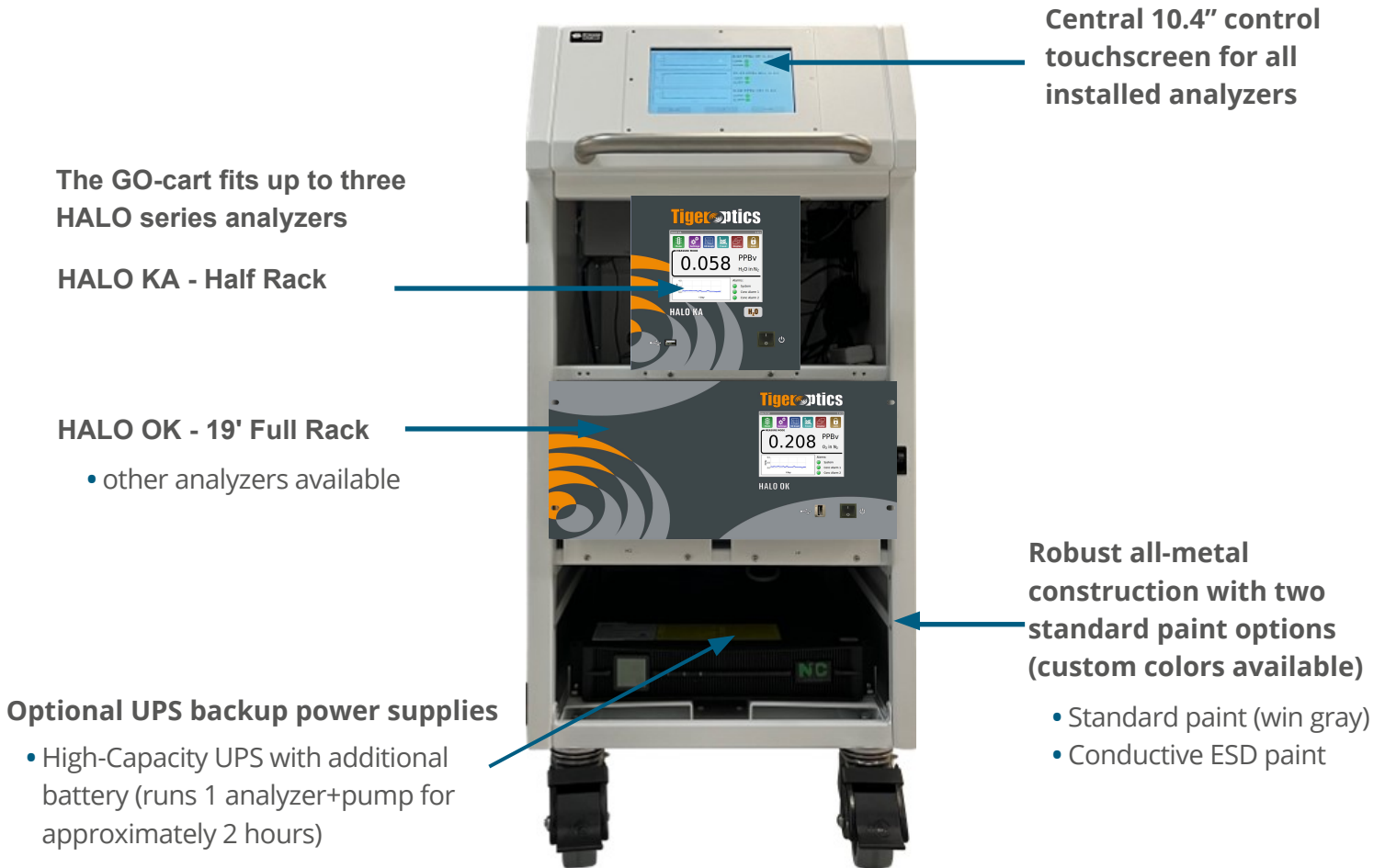
Our mobile GO-cart is easy to move around the fab and comes with the following features:

- Space for up to three analyzers
- No calibration, maintenance or consumables required (for both cart and analyzers)
- Top-mounted central control touchscreen
- Integrated UPS backup power supply (optional)
- Conductive ESD paint (optional)

Your Flexible Solution for Analytical Monitoring

Surveying different main line ends or new tool purge in a fab is now fast and easy with our GO-cart™, the mobile solution for monitoring your analytical needs. It can be equipped with any combination of analyzers to monitor simultaneously and in real-time for the most critical contaminants.

GO-cart – Mobile Solution for Analytical Monitoring



GO-cart Specifications

Dimensions (H x W x D)	50" x 23" x 36" (127 cm x 58 cm x 91 cm)
Weight (w/o analyzers)	260 lbs (118 kg)
Body material	Aluminum

GAIN REAL-TIME INSIGHT INTO YOUR PROCESS

Process Insights manufactures and integrates premium analytical equipment, software and process solutions that are mission-critical to keep your operations, personnel, and the environment safe.

Get the most accurate, reliable and precise analytical technologies available on the market today. We will match your needs and budget to provide the optimal process analysis solution for your application.

HALO OK+ Performance (using pure H₂ utility gas)

Performance, O ₂	Range	LDL [†] (3σ)	Precision (1σ) @ zero
In Helium:	0 – 0.5 ppm	20 ppt	7 ppt
In Argon:	0 – 1 ppm	35 ppt	12 ppt
In Hydrogen:	0 – 1 ppm	60 ppt	20 ppt
In Nitrogen:	0 – 2.5 ppm	75 ppt	25 ppt

HALO OK Standard Model (using pure H₂ utility gas)

Performance, O ₂	Range	LDL [†] (3σ)	Precision (1σ) @ zero
In Helium:	0 – 0.5 ppm	50 ppt	17 ppt
In Helium (ER [†]):	0 – 2 ppm	150 ppt	50 ppt
In Helium (HR [#]):	0 – 5 ppm	500 ppt	200 ppt
In Argon:	0 – 1 ppm	90 ppt	30 ppt
In Hydrogen:	0 – 1 ppm	150 ppt	50 ppt
In Hydrogen (ER [†]):	0 – 8 ppm	600 ppt	200 ppt
In Hydrogen (HR [#]):	0 – 20 ppm	2000 ppt	700 ppt
In Nitrogen:	0 – 2.5 ppm	200 ppt	70 ppt
In Nitrogen (ER [†]):	0 – 10 ppm	750 ppt	250 ppt
In Nitrogen (HR [#]):	0 – 20 ppm	2000 ppt	700 ppt

HALO OK CO₂ Model (using pure H₂ utility gas)

Performance, O ₂	Range	LDL [†] (3σ)	Precision (1σ) @ zero
In Helium:	0 – 0.5 ppm	50 ppt	17 ppt
In Argon:	0 – 1 ppm	90 ppt	30 ppt
In Hydrogen:	0 – 2 ppm	150 ppt	50 ppt
In Nitrogen:	0 – 2.5 ppm	200 ppt	70 ppt
In Carbon Dioxide:	0 – 5 ppm	5000 ppt [‡] / 1000 ppt [§]	300 ppt

HALO OK Enhanced Safety Model (using 3% H₂/97% N₂ mixture utility gas)

Performance, O ₂	Range	LDL ^{†,‡}	Precision (1σ) @ zero
In Helium:	0 – 0.5 ppm	400 ppt	17 ppt
In Argon:	0 – 1 ppm	400 ppt	30 ppt
In Hydrogen:	0 – 2 ppm	400 ppt	50 ppt
In Nitrogen:	0 – 2.5 ppm	400 ppt	70 ppt

Contact us for additional analytes and matrices or information about our optional purged enclosure.

[†]LDL is dependent upon the quality of the sample gas and the integrity of the sampling system. Linear Fit Mode may be used to zero readings.

[‡]LDL is limited by minimum achievable O₂ concentration, not by 3σ baseline noise.

[§]LDL of 1000 ppt requires addition Gas Panel and Linear Fit Mode. Please contact us for more information.

^{††}The Extended Range (ER) option is available as add-on to any Standard Model

^{##}The High Range (HR) option is available as add-on to any Standard Model

HALO KA Performance, H₂O

		Range	LDL (3σ)	Precision (1σ) @ zero
INERT/PASSIVE GASES	In Nitrogen:	0 – 20 ppm	300 ppt	100 ppt
	In Helium :	0 – 4 ppm	100 ppt	20 ppt
	In Argon:	0 – 9 ppm	130 ppt	20 ppt
	In Hydrogen:	0 – 16 ppm	200 ppt	70 ppt
	In Deuterium (² H ₂):	0 – 14 ppm	900 ppt	300 ppt
OXYGENATED GASES	In Oxygen:	0 – 10 ppm	150 ppt	50 ppt
	In Clean Dry Air (CDA):	0 – 18 ppm	300 ppt	100 ppt
	In CO:	0 – 24 ppm	600 ppt	200 ppt
	In CO ₂ :	0 – 25 ppm	800 ppt	300 ppt
	In COS:	0 – 23 ppm	4 ppb	1.4 ppb
RARE GASES	In Neon:	0 – 5 ppm	100 ppt	30 ppt
	In Krypton:	0 – 11 ppm	160 ppt	60 ppt
	In Xenon:	0 – 13 ppm	250 ppt	90 ppt
CORROSIVE GASES	In Cl ₂ *:	0 – 25 ppm	650 ppt	220 ppt
	In HCl†:	0 – 50 ppm	1200 ppt	400 ppt
	In HBr*:	0 – 50 ppm	12 ppb	4 ppb
FLUORINATED GASES	In SF ₆ :	0 – 15 ppm	400 ppt	140 ppt
	In NF ₃ :	0 – 20 ppm	600 ppt	200 ppt
	In CF ₄ :	0 – 15 ppm	800 ppt	300 ppt
	In C ₂ F ₆ :	0 – 15 ppm	1200 ppt	400 ppt
	In C ₃ F ₈ :	0 – 20 ppm	1200 ppt	400 ppt
	In C ₄ F ₆ :	0 – 25 ppm	150 ppb	50 ppb
	In C ₄ F ₈ :	0 – 20 ppm	1200 ppt	400 ppt
	In C ₅ F ₈ :	0 – 32 ppm	8 ppb	3 ppb
HYDRIDE GASES	In 1% GeH ₄ /99% H ₂ mixture:	0 – 16 ppm	7 ppb	2.5 ppb
	In 10% GeH ₄ /90% H ₂ mixture:	0 – 16 ppm	35 ppb	12 ppb

*Corrosive gas version required

†Corrosive gas version recommended for H₂O concentration that could exceed 1 ppm

Contact us for additional analytes and matrices.

U.S. Patent # 7,277,177

GAIN REAL-TIME INSIGHT INTO YOUR PROCESS

Process Insights delivers premium analytical sensors, analyzers, instrumentation, software and solutions that are mission-critical to keep your operations, personnel, and the environment safe. Our commitment to customer satisfaction is evident through our diverse range of products, programs, and services, designed to accommodate various budgets and application needs.

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