

INTRODUCING THE NEXT GENERATION CGI TOOL



The **HYBRID** CGI establishes a new benchmark for multi-gas portable instrumentation in the natural gas industry, offering exceptional safety, reliability, ease of use, self-calibration, accuracy, advanced data logging, wireless connectivity, and secure cloud integration.

Why HYBRID?

Self-Calibration

Field Self-Calibration feature delivers automatic calibration and verification of precise reading accuracy—without the need for external gases—maximizing field time and lowering maintenance costs.

Seamless Reporting

Self-Calibration records are seamlessly and securely archived to Heath's cloud via the Companion mobile app.

Custom Configuration

Instrument configurations can be factory-specified or easily modified in the field—individually or across an entire fleet—with alarm types and levels customizable by operational mode.

Fully Featured

A full feature set is provided for the natural gas and other industries for demanding field applications.

Experience the next generation of gas detection—where innovation meets peace of mind.



BENEFITS

- Self-Calibration
- Long life optical technology
- Field friendly User Interface
- High sensitivity
- Fast response time
- Fully configurable
- Lowered maintenance costs



FEATURES

- Optically based multi-gas detection technology
- Sunlight and lowlight readable touchscreen
- Integrated GPS and wireless connectivity
- Automatic calibration record archiving to the cloud
- Natural Gas Discrimination test
- Bar-hole test
- Indoor, Outdoor, Confined Space, Purge, Flue, Cal Modes



INDUSTRIES

- Natural gas utilities
- Local gas distribution companies (LDC)
- Construction companies
- Industrial gas distributors
- Gas storage facilities
- Landfill monitoring



APPLICATIONS

- Leak Investigation
- Leak survey
- Bar-holing
- Purging



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PRODUCT SPECIFICATIONS

Self-Calibration

Operation

Internally integrated
Automatic or manual

CH₄, CO, CO₂, and O₂

Self-Calibration Temp. Range

60 °F - 86 °F (15 °C - 30 °C)

Power

Battery Pack

Removable
Rechargeable
4 Cell Lithium-ion pack, 7.2 V, 10 Ah



Battery Pack Charge Time

≈ 7 hours

Run Time

≈ 5 hours at 32 °F (0 °C)

USB-C Power Port for Charging

5V, 3A Power Supply Provided

Modes / Gases Detected

Modes

Indoor, Outdoor (Methane Only,
Bar-hole), Purge, Flue, Confined
Space, and Self-calibration

Start-up / Warm-up Time

(no self-calibration)
>3.5 min

Gas Detection Method

Optical

Gases Detected

Methane:

5- 1,000 ppm

1- 100 % LEL

5 - 100 % by volume

CO: 5 ppm - 2,000 ppm

CO₂: 0.1 % - 30 %

O₂: 0.1 % - 25 %

Accuracy

Methane: ± 10 % of ppm reading,
± 5 % LEL (typical)

Volume Gas: ± 10 % or ± 5 % of Full
Scale if smaller

CO: ± 5 ppm or ± 10 % > 50 ppm

O₂: ± 0.5 % at 32 °F - 113 °F (0 °C - 45 °C)

Resolution

Methane: 1 - 1,000 ppm: 5 ppm

1,000 - 5,000 ppm: 10 ppm

5,000 - 10,000 ppm: 100 ppm

1 - 100 % Gas: 0.1 %

CO: 5 ppm

CO₂: 0.1 %

O₂: 0.1 %

Response Time

CGI with Survey Probe

T10 < 4 Sec; T50 < 5 Sec; T90 < 7
Sec

Gas Purging

100 % Natural Gas to < 50 ppm in
<= 1 min

Natural Gas Discrimination Threshold

>= 0.5 % Natural gas for >= 30 sec

Display

Size

3.2 in (8.1 cm) monochrome

Selection Methods

3 Keypad Buttons / Touchscreen

GNSS

Precision Dual Frequency

GPS, GLONASS, BeiDou, Galileo

Communication

USB-C Data Port

Flash drive

Wireless Connectivity

Alarms

General

Audible and visual for detection
thresholds, warnings and errors.

Detection Alarm Levels

Customizable configurations

Geiger Mode

Continuous audible beep rate
relative to concentration from
10 - 1000 ppm

Pump

Sample and Purge Flow Rate

≈ 1.0 lpm

Barhole Flow Rate

≈ 1.0 lpm

Data Logging

Data Collected

Self-calibration certificate

Diagnostic logs

GPS location data

Date & time

Gas readings

Alarms

Bar-hole data

Storage

Internal Removable 16 GB micro
SD card

Operating Conditions

Temperature Range

14 °F to 113 °F (- 10 °C to 45 °C)

Humidity

5 - 95 % RH, non-condensing

Elevation

10,000 ft (3,048 m)

General

HYBRID CGI Weight

≈ 4.75 lbs (76oz)

Carry Case Dimensions

Exterior: 17.5 x 14.2 x 7.5 in
(45 x 36 x 19cm)

Interior: 16.0 x 11.6 x 6.2 in
(41 x 29 x 16cm)

Regulatory & Certification

Federal Communications Commission

47 CFR Part 15 & ICES-003



European Conformity

CE (Pending)

Measuring Instruments Directive
(2014/32/EU)

EMC Directive
(2014/30/EU)

Low Voltage Directive
(2014/35/EU)

Radio Equipment Directive
(2014/53/EU)

ETSI EN 301 489-1 v2.2.0
(EN6100-6-4)

EMC / ESD (EN61000-6-2)

EN 61326-1:2013

Ingress Protection

IP54

Hazardous Location Safety

Class 1, Zone 1 AEx ib IIA T3 Gb

Ex ib IIA T3 Gb

Ordinary Location Safety

UL/CSA 61010-1

CAN/CSA-C22.2 No 61010-1-12

