

THE VENTBUSTER®

ADVANCING SURFACE CASING VENT FLOW MONITORING INTO THE 21ST CENTURY

The Ventbuster® is a highly portable, intuitive, smart gas meter that empowers oilfield personnel to conduct accurate, accountable and repeatable tests.

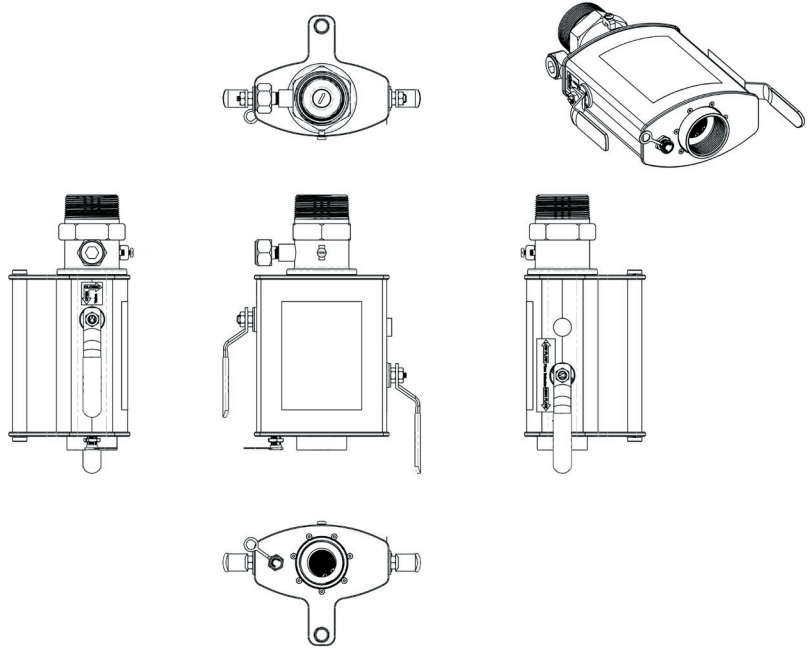


FIGURE 1. VENTBUSTER® VENT UNIT

REVOLUTIONARY ADVANCEMENT IN ULTRA-LOW FLOW GAS VENTING DETECTION AND MEASUREMENT

Introducing the Ventbuster®, a patented breakthrough in relative low and ultra low flow gas measurement explicitly designed for surface casing vent flow (SCVF) qualification and quantification. This innovative new technology can eliminate fugitive methane emissions by providing the most accurate vent flow measurement for intuitive diagnostics and best-in-class well integrity restoration techniques. Operating in strict compliance with the AER Directive 20 and Directive 87, the Ventbuster® is the only vent meter on the market that accurately detects, while directly and continuously measuring both constant and intermittent SCVF rates ranging from “one bubble” in 10 minutes equivalent to over 450 m³/day.

DEVICE FEATURES:

- Real-time, automated monitoring and digital recording of flow rate, flowing pressure, flowing temperature, and shut-in SCV pressure build-up to stabilization.
- Portable, hand-held, smart technology meter with sophisticated, intuitive software for quick and simple “plug & play” operation.
- Bluetooth-enabled APP for operator interfacing, on-site communication, and notifications directly on the Tablet.
- Designed for routine SCVF testing, well abandonment monitoring, SCVF remediation, cutting and capping vent verification, and on-site ‘sentinel’ vent flow monitoring.
- Cellular-based telemetry transmits real-time data to our secure Cloud-based IoT Platform.
- 24/7 client access to live and historical data through a web portal.
- On-board GPS for test site confirmation.
- All transmitted data is date and time stamped for verification.
- Remote site data download capability via Bluetooth.
- An intrinsically safe SCVF gas metering device.
- CSA Certified in Hazardous Area - Zone 0 Class IIB for all oil and gas facility installations.

THE VENTBUSTER®

ATTRIBUTE	SPECIFICATION
Weight	6.8 kg
Storage Temperature	-40°C - +60°C
Operating Temperature	-40°C - +55°C
Inlet Connection	50.8 mm NPT
Ultra Low Flow Range *	0.04 ml/min < 1.0 m³/day
Relative Low Flow Range *	1.0 m³/day > 450 m³/day
Meter Accuracy (at calibration)	< 1.0% of Full Scale
Pressure Loss (at calibration)	+/- 0.2 kPa
Max Shut-in Pressure **	7000 kPa
Pressure Error (at calibration)	+/- 5.0 kPa
Shut-in Leak Rate	0.1 mL/min @ 7000 kPa
Pressure Measurement	0 - 7000 kPa
Ingress Protection	IP 54
Internal Power	Rechargeable Lithium-Ion
External Power (Optional)	Battery 12V @ 100 mA
Wireless Communication †	Bluetooth, Cellular Networks
Hazardous Area Classification	CSA Zone 0 Group IIB T4

* Requires manual operation to change flow range.

** Outlet must vent to atmosphere, shut-in pressure limited by preselected relief valve.

† Device is secure IoT Cloud enabled.

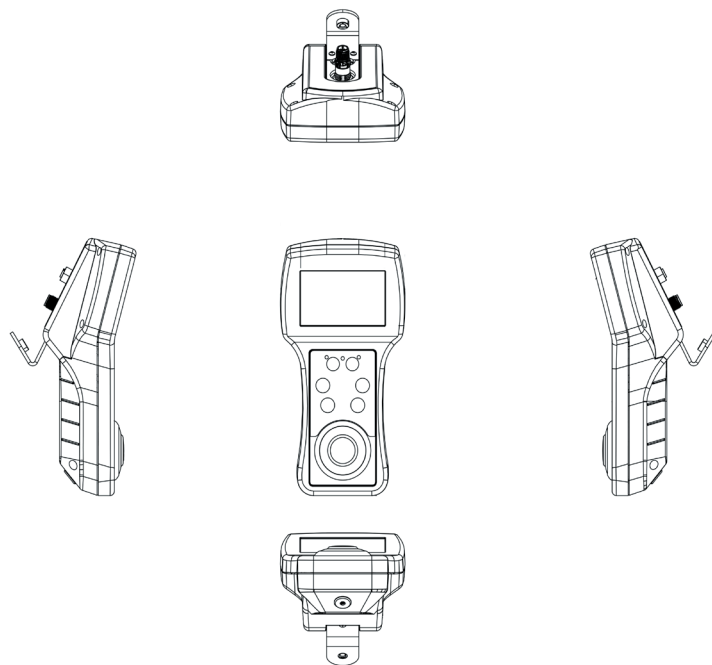


FIGURE 2. VENTBUSTER® COMMUNICATIONS UNIT



MADE IN CANADA

Designed and manufactured in Canada by Ventbusters Inc. and Tangent Design Engineering.



DESIGNED FOR ULTIMATE WELLSITE SAFETY

Intrinsically safe, hazardous area certified.

INTERNATIONALLY PATENTED FLOW TECHNOLOGY

Novel flow sensor technology coupled with a state of the art, patented, flow channel to provide the only direct measurement low flow gas meter in the industry.

CONSTRUCTED FOR THE OILFIELD

Simple installation with 50.8mm NPT quick connect adapter. Intuitive self-check start-up characteristics to be operational and programmed in minutes. Auxiliary battery port with solar power pack available.

SMART TECHNOLOGY OPERATION

Intuitive hand-held controls using Bluetooth and cellular connectivity. Real-time, secure data transmission to IoT Cloud storage. Client dashboard display and report download.