Definer 220

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Featuring a number of quality and performance enhancements over traditional flow meter technologies, the Definer 220 offers:

- Quick Start Operation
- Graphical LCD Display
- User-selectable Flow Units and Time Intervals
- Fully Customizable

Bios DryCal® TECHNOLOGY

Flexible Ways of Working

No matter your application, the portable Definer 220 is ready to go to work for you, because it's a true volumetric standard based on the principle of positive displacement. The Definer 220 provides immediate indication of the actual gas flow rate, accurately and independently of the gas type. It also includes integrated temperature sensors and pressure transducers in the flow stream, so you can compensate for standard conditions - allowing traceable verifications of mass flow devices.

A versatile, push-button flow meter, the Definer 220 is also a primary flow standard, enabling you to accurately calibrate a variety of instrumentation.

- **Reliable -** 15 years of Proven Bios DryCal® Technology
- **Accurate -** Backed by ISO 17025; NVLAP accredited
- **Portable -** Lightweight and impact-resistant
- **Simple -** Push button testing; no user interpretation or external calculations required

Flow Ranges	**Low (Model 220-L)** 5 scc/min - 500 scc/min* **Medium (Model 220-M)** 50 scc/min - 5,000 scc/min* **High (Model 220-H)** 300 scc/min - 30,000 scc/min*
Accuracy	1% Standardized / 0.75% Volumetric
Size	Small enough to fit easily in your hand; slim enough to slide into a briefcase or tote.
Weight	29 oz / 820 g
Dimensions (H x W x D)	5.5 x 6 x 3 in / 140 x 150 x 75 mm

*At gas pressure of 760 mmHg, and a gas temperature of 25° centigrade with standardization temperature set to 0° centigrade.

User-Selectable Measurement Units

Volumetric Flow	mL/min L/min cc/min cf/min
Standard Flow	smL/min sL/min scc/min scf/min
Pressure	mmHg PSI kPa
Temperature	°C °F

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Mesa meets the highest quality assurance standards for gas flow measurement uncertainty, including industry-leading ISO 17025, ANSI Z-540 and NIST 150 laboratory accreditation by the National Voluntary Laboratory Accreditation Program (NVLAP) administered by the National Institute of Standards and Technology (NIST).

Definer 220 Specifications

Approximate Time per Reading:	1-15 seconds
Gas Compatibility:	Use with non-corrosive, non-condensing, non-combustible gases, less than 70% humidity
Flow Modes:	Pressure or Suction
Measurement Cell Style:	Integrated
Temperature and Pressure Sensors:	In the flow stream Press.: 3.5 mmHg (typical), 7.0 mm (max); Temp.: 0.8° C (typical), 1.3° C (max)
Reading Styles:	Single (manual), Continuous or Burst, with averaging function user-selectable from 1 to 100 measurements
AC Adapter/Charger:	12V DC, >250ma, 2.5 mm, center positive
Battery System:	6V rechargeable, sealed lead-acid, 6-8 hrs typical operation
Battery Operational Time (5 cycles/min):	3 hrs backlight on, 8 hrs backlight off
Pressure and Suction Fittings:	1/4" ID Swagelok® compression fittings, 3/8" fittings on High Model
Warranty:	1 year; battery 6 months
Storage Temperature:	0-70° C
Ambient Humidity:	0-70%, non-condensing
Operating Pressure (Absolute):	Atmospheric, 15 PSI Max
Display:	Backlit graphical LCD
Data Port (for PC interface):	Serial (RS-232)
Data Cable (for PC interface):	1 meter (Definer Data Port to PC serial port)
Protective Case:	Soft side or Pelican case available

RoHS- and CE-compliant

Backed by ISO 17025 and Proven Bios DryCal® Technology, the Definer 220 helps assure compliance with environmental regulations and improves your process control.

NVLAP®

NVLAP Lab Code 200661-0

Mesa's Butler, N.J. manufacturing facility (pictured above) is our NVLAP accredited ISO 17025 laboratory.

MesaLabs