Definer 220

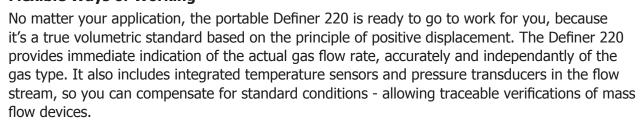
Primary Flow Meter

Definer 220

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

Flexible Ways of Working



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

Low (Model 220-L) 5 scc/min - 500 scc/min*
Flow Ranges Medium (Model 220-M) 50 scc/min - 5,000 scc/min - 5,000

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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Definer 220

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: Press.: 3.5 mmHg (typical), 7.0 mm (max); Temp.: 0.8°C

(typical), 1.3°C (max)

In the flow stream

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.





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

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