## **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

**Flow Ranges** 

## Delner 220 Delner



### **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

**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 sc/min scf/min

**Pressure** mmHg PSI kPa

**Temperature** °C °F

MesaLabs

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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

Use with non-corrosive, non-condensing, non-combustible Gas Compatibility:

gases, less than 70% humidity

Flow Modes: Pressure or Suction

**Measurement Cell Style:** Integrated

In the flow stream **Temperature and Pressure Sensors:** Press.: 3.5 mmHg (typical), 7.0 mm (max); Temp.: 0.8° C

(typical), 1.3°C (max)

Single (manual), Continuous or Burst, with averaging function **Reading Styles:** 

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

1/4" ID Swagelok® compression fittings, 3/8" fittings on High **Pressure and Suction Fittings:** 

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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