Defender 530+

Featuring a number of quality and performance enhancements over traditional flow meter technologies, the Defender 530+ offers:

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

Mealahs .



Flexible Ways of Working

No matter your application, the portable Defender 530+ is ready to go to work for you, because it's a true volumetric standard based on the principle of positive displacement. The Defender 530+ 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 Defender 530+ is also a primary flow standard, enabling you to accurately calibrate a variety of instrumentation.

- **Reliable -** 20 years of Proven 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

		Defender 530+ L Low Flow	Defender 530+ M Medium Flow	Defender 530+ H High Flow
Model and Flow Ranges		5-500 sccm	50-5,000 sccm	300-30,000 sccm
Volumetric Accuracy		0.75%	0.75%	0.75%
Standardized Accuracy		1%	1%	1%
User Selectable Measurement Units	Volumetric	mL/min, L/min, cc/min, cf/min	mL/min, L/min, cc/min, cf/min	mL/min, L/min, cc/min, cf/min
	Standardized	smL/min, sL/min, scc/ min, scf/min	smL/min, sL/min, scc/ min, scf/min	smL/min, sL/min, scc/ min, scf/min
	Temperature	°C °F	°C °F	°C °F
	Pressure	mmHg, PSI, kPa	mmHg, PSI, kPa	mmHg, PSI, kPa
Temperature and Pressure Sensor		Yes, in flow stream	Yes, in flow stream	Yes, in flow stream
Pressure Accuracy		\pm 3.5 mmHg (typical) \pm 7.0 mm (max)	\pm 3.5 mmHg (typical) \pm 7.0 mm (max)	± 3.5 mmHg (typical) ± 7.0 mm (max)
Temperature Accuracy		\pm 0.8 °C (typical) \pm 1.3 °C (max)	\pm 0.8 °C (typical) \pm 1.3 °C (max)	\pm 0.8 °C (typical) \pm 1.3 °C (max)



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Rev. 10.24.2016



Defender 530+ Specifications

Approximate Time per Reading: 1-15 seconds

Reading Styles (with averaging function user-Single (manual), Continuous or Burst selectable from 1 to 100 measurement):

Gas Compatibility: Non-corrosive, non-condensing, less than 70% humidity

Flow Modes: Pressure or Suction

Measurement Cell Style: Integrated

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 (Defender Data Port to PC included)

Protective Case: Pelican case available

Dimensions (H x W x D): 5.5" x 6" x 3" / 140 x 150 x 75 mm

Weight: 29 oz / 820 g

RoHS and CE Compliant

Backed by ISO 17025 and Proven DryCal® Technology, the Defender 530+ helps assure compliance with environmental regulations and improves your process control.







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