

Defender 500-series

Flowcalibrators



Defender 510

Defender 520

Defender 530+

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We take intensive Care

Defender 500-series

Defender 510

Volumetric Primary Flow Standard

Defender 520

Enhanced Volumetric Primary Flow Standard

Defender 530+

Standardized and Volumetric Primary Flow Standard

Turn the Defender on. Connect it to your pump. Take measurements. It's that simple. Instantly calibrate your gas flow using Quick Start – there is no preparation involved, no messy soap bubble solutions. Defender's many user-selectable options makes customizing your calibrations easy, giving you exactly what you need in the format you prefer. All you have to do is choose between the 510, the 520 or the 530+.



		Defender 510	Defender 520	Defender 530+
Model and Flow Ranges		Low: 5-500 ml/min Medium: 50-5000 ml/min High: 300-30000 ml/min	Low: 5-500 ml/min Medium: 50-5000 ml/min High: 300-30000 ml/min	Low: 5-500 ml/min Medium: 50-5000 ml/min High: 300-30000 ml/min
Volumetric Accuracy		1%	1%	0.75%
Standardized Accuracy		N/A	N/A	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	N/A	N/A	smL/min, sL/min, scc/min, scf/min
	Temperature	N/A	°C °F	°C °F
	Pressure	N/A	mmHg, PSI, kPa	mmHg, PSI, kPa
Pressure Accuracy		N/A	+ 3.5 mmHg (typical) + 7.0 mm (max)	+ 3.5 mmHg (typical) + 7.0 mm (max)
Temperature Accuracy		N/A	+ 0.8 °C (typical) + 1.3 °C (max)	+ 0.8 °C (typical) + 1.3 °C (max)
Industry Applications		Industrial Hygiene Air Quality		Instrument Manufacturing Air Quality Personal Gas Sampling

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Specifications

Approximate Time per Reading	1-15 seconds
Reading Styles (with averaging function user-selectable from 1 to 100 measurement)	Single (manual), Continuous or Burst
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
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)	140 x 150 x 75 mm
Weight	820 gram

Description	Part number
Defender 510 L 5 - 500 ml/min	200-510L
Defender 510 M 50 – 5000 ml/min	200-510M
Defender 510 H 300 – 30000 ml/min	200-510H
Defender 520 L 5 - 500 ml/min	200-520L
Defender 520 M 50 – 5000 ml/min	200-520M
Defender 520 H 300 – 30000 ml/min	200-520H
Defender 530+ L 5 - 500 ml/min	200-530+L
Defender 530+ M 50 – 5000 ml/min	200-530+M
Defender 530 +H 300 – 30000 ml/min	200-530+H
Single charger for Defender 500 series	100-222
Pelican carry case for single Defender	100-250
Pelican carry case for 2 - 3 Defenders	100-251
PC Card Provides a serial port for laptop	100-112
Serial cable for PC connection	100-113
Spare leak test caps	100-413



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