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

| <b>User-Selectable Measurement Units</b> |                            |
|--|----------------------------|
| <b>Volumetric Flow</b>                   | mL/min L/min cc/min cf/min |
| <b>Pressure (Defender 520 only)</b>      | mmHg PSI kPa               |
| <b>Temperature</b>                       | °C °F                      |

| <b>Defender 500 Series Specifications</b>       |  |
|---|--|
| <b>Approximate Time Per Reading:</b>            | 1-15 seconds   |
| <b>Gas Compatibility:</b>                       | Use with non-corrosive, non-condensing, non-combustible gases, less than 70% humidity                    |
| <b>Flow Modes:</b>                              | Suction or Pressure  |
| <b>Measurement Cell Style:</b>                  | Integrated   |
| <b>Temperature and Pressure Sensors:</b>        | In the flow stream<br>Press.: 3.5 mmHg (typical), 7.0 mm (max);<br>Temp.: 0.8° C (typical), 1.3° C (max) |
| <b>Reading Styles:</b>                          | Single (manual), Continuous or Burst, with averaging function user-selectable from 1 to 100 measurements |
| <b>AC Adapter/Charger:</b>                      | 12V DC, >250ma, 2.5 mm, center positive  |
| <b>Battery System:</b>                          | 6V rechargeable, sealed lead-acid, 6-8 hrs typical operation   |
| <b>Battery Operational Time (5 cycles/min):</b> | 3 hrs backlight on, 8 hrs backlight off  |
| <b>Pressure and Suction Fittings:</b>           | ¼" ID Hose Barb  |
| <b>Warranty:</b>                                | 1 year; battery 6 months   |
| <b>Storage Temperature:</b>                     | 0-70° C  |
| <b>Ambient Humidity:</b>                        | 0-70%, non-condensing  |

| <b>Defender 500 Series Specifications</b>           |                       |
|---|-----------------------|
| <b>Operating Pressure (Absolute):</b>               | 15 PSI                |
| <b>Display:</b>                                     | Backlit graphical LCD |
| <b>Data Port (for use with Optimizer software):</b> | Serial (RS-232)       |