

Digital Flow Calibrators



The Lab Impex Systems range of Digital Flow Calibrators (DEC's) are used to calibrate air sampling systems and CAMs. Available as either battery or mains power, Lab Impex Systems offer a wide range of models to meet the needs of a nuclear calibration laboratory.

- Display of flow in cfm, lpm or m³/m
- Flow corrected to pressure and temperature (4 options available)
- Display of barometric pressure and temperature in metric or English units
- Standard accuracy +/-2% full scale

All Digital Flow Calibrators are calibrated by an instrument traceable to the US National Bureau of Standards (NIST). Each calibrator is mounted in a rugged, transportable aluminium enclosure..

Performance Specification

Measurement Principles	<ul style="list-style-type: none"> • Flow sensor: Venturi type • Standardisation: Four reference temperature and barometric pressure options available 																
Measurement Range	<table border="1"> <tr> <th>Model</th> <th>Range</th> </tr> <tr> <td>DV-802</td> <td>6-56 lpm</td> </tr> <tr> <td>DV-812</td> <td>14-115 lpm</td> </tr> <tr> <td>DV-828</td> <td>28-250 lpm</td> </tr> <tr> <td>DV-814</td> <td>28-400 lpm</td> </tr> <tr> <td>DV-530</td> <td>140-850 lpm</td> </tr> <tr> <td>DV-540</td> <td>140-1130 lpm</td> </tr> <tr> <td>DV-870</td> <td>280-1980 lpm</td> </tr> </table>	Model	Range	DV-802	6-56 lpm	DV-812	14-115 lpm	DV-828	28-250 lpm	DV-814	28-400 lpm	DV-530	140-850 lpm	DV-540	140-1130 lpm	DV-870	280-1980 lpm
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Temperature	<ul style="list-style-type: none"> • -20 to 50°C • Fast, accurate warning of high activity or faults 																
Barometric Pressure	<ul style="list-style-type: none"> • 760-609mm Hg • Sea level to 6000ft 																

Measurement Accuracy	<ul style="list-style-type: none"> • +/-2% of full scale (Venturi) • Temperature: +/-1°C • Pressure range: +/-1% over measurement range 																		
Display	<ul style="list-style-type: none"> • 4 digit LCD 0.7" high 																		
Displayed Parameters and Resolution	<table border="1"> <tr> <th>Parameters</th> <th>Engineering Unit</th> <th>Resolution</th> </tr> <tr> <td>cfm</td> <td>Cubic feet per minute</td> <td>0.01</td> </tr> <tr> <td>lpm</td> <td>Litres per minute</td> <td>0.001</td> </tr> <tr> <td>m³/m</td> <td>Cubic meter per minute</td> <td>0.0001</td> </tr> <tr> <td>°F</td> <td>Degree Fahrenheit</td> <td>0.1</td> </tr> <tr> <td>°C</td> <td>Degree Celsius</td> <td>0.1</td> </tr> </table>	Parameters	Engineering Unit	Resolution	cfm	Cubic feet per minute	0.01	lpm	Litres per minute	0.001	m ³ /m	Cubic meter per minute	0.0001	°F	Degree Fahrenheit	0.1	°C	Degree Celsius	0.1
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Physical Characteristics	<ul style="list-style-type: none"> • Length: 250mm (9.8") • Width: 212mm (8.3") • Height: 275mm (10.8") • Weight: 3.75Kg (nett) approx (8lbs) 																		

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