

General specifications							
Device name	BOREAS.usb						
Model name	LFT4						
Order number	84.xxx						
Measuring ranges	<ul style="list-style-type: none"> <li>• 10 Nml/min</li> <li>• 20 Nml/min</li> <li>• 30 Nml/min</li> <li>• 100 Nml/min</li> <li>• 200 Nml/min</li> <li>• 300 Nml/min</li> <li>• 1000 Nml/min</li> <li>• 2000 Nml/min</li> <li>• 3000 Nml/min</li> </ul>						
Accuracy	± 1% rd. + 0,5% fs.						
Dynamics	1:10 (10...100%)						
Resolution (switchable)	<table border="1" style="display: inline-table; vertical-align: top;"> <tr> <td>0,001 / 0,01 Nml/min</td> <td>up to 30 Nml/min</td> </tr> <tr> <td>0,01 / 0,1 Nml/min</td> <td>up to 300 Nml/min</td> </tr> <tr> <td>0,1 / 1 Nml/min</td> <td>up to 3000 Nml/min</td> </tr> </table>	0,001 / 0,01 Nml/min	up to 30 Nml/min	0,01 / 0,1 Nml/min	up to 300 Nml/min	0,1 / 1 Nml/min	up to 3000 Nml/min
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Additional selectable units	l/h, cm <sup>3</sup> /min, cm <sup>3</sup> /sec, in <sup>3</sup> /min						
Adjustable gas standards	<ul style="list-style-type: none"> <li>• Din 1343 – (1013mbar / 0°C)</li> <li>• Din 102 – (981mbar / 20°C)</li> <li>• 936mbar / 20°C</li> <li>• 1013mbar / 20°C</li> <li>• 760mmHg / 25°C</li> <li>• ISO 2533 – (1013mbar / 15°C)</li> </ul>						
Sensor technology	Unidirectional sensor, temperature compensated						
Flow direction	Only positive flow Calibrated at DIN 1343						

Signal outputs	
Current output (optional)	4...20mA - unidirectional sensor
Digital output	USB serial converter integrated, bidirectional communication

Power supply	
Power supply	5V DC / regulated, via USB port Optional via 4 pin connector
Power consumption	Typical 85mA plus current output
Electrical connection	<ul style="list-style-type: none"> <li>• Mini-USB (standard)</li> <li>• 4 pin. connector (optional)</li> </ul>

<b>Operating limits</b>	
Temperature range	0...50°C
Max. permissible flow	20 l/min
Max. permissible both side pressure	<ul style="list-style-type: none"> <li>• 25 PSI</li> <li>• 100 PSI – optional*</li> </ul>
Warm-up time	30 min min for optimal results
Medium	Air and dry, non corrosive gases

<b>USB interface</b>	
USB port	USB type B / mini
Transmission parameters	Baud rate: 9600 Data bits: 8 Stop bits: 1 Parity: none Flow control: Xon / Xoff

<b>Mechanical properties</b>	
Pressure connections	Hose connection with union nut: <ul style="list-style-type: none"> <li>• 6/4 (4mm inside) – standard</li> </ul> Plug-in hose connection: <ul style="list-style-type: none"> <li>• 6/4 (4mm inside)</li> </ul>
Dimensions	114 x 55 x 30 mm
Weight	160 g
Enclosure material	Aluminium
Mounting position	Any
Protection class	None

<b>Scope of supply</b>	
Accessories (included)	USB cable: type A <> Mini type B

<b>Options</b>	
Current output	4...20mA via 4 pin connector, Binder type 719
Power supply	External 5V power supply via 4 pin connector, Binder type 719

\* On request (not available for all devices / see onlineshop)