Envitems LPC – An OEM Module for PM2.5/PM10 Particle Measurements

Product Datasheet

- **Compact Laser Particle Counter (LPC) for indicative air quality measurements**
- **Measures PM2.5 and PM10**
- **Other particle sizes available on request**
- **Integrated brushless pump and temperature/humidity sensor as an option**
- **RS-232 connection**
- **Single +5 VDC power supply**
- **1 year factory calibration**

Envitems LPC is one of the world's smallest particle counters. Its operational principle is based on the scattering of laser light caused by passing particles, which are measured optically and analyzed with digital signal prosessing (DSP). The particle counter is primarily intended for indicative PM2.5/PM10 measurements.

The measurements can be read via a RS-232 interface. As compact and easy to integrate, Envitems LPC can be used as part of other systems.

Envitems LPC is available with a combined temperature/humidity sensor and an integrated pump. An isokinetic sampling nozzle is part of standard configuration.

The light-weight particle counter weighs only 195 grams with a pump, and even less without it.

For more information, please contact our sales.

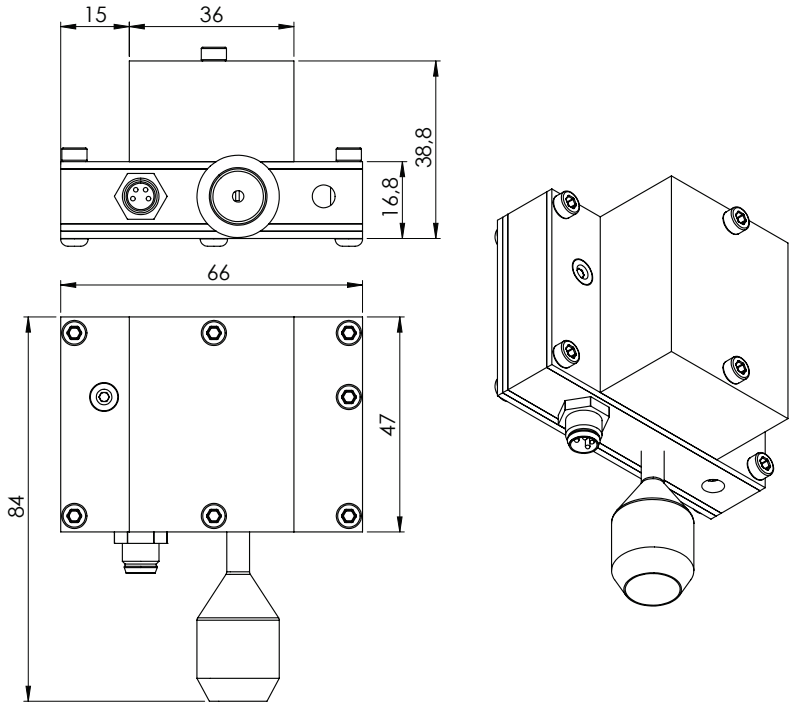
envitems.com/go/oem

Technical specifications

Data protocol	Custom ASCII (115200 bps)
Serial data interface	RS-232
Power and data connector	4-pin M8 connector with 150 mm cable
Sample connectors	3.2 mm barbed fitting
Operating voltage	5 VDC ± 10 %
Power consumption	Typ. 300 mW in operation
Operating environment	-30 — 50 °C, RH 15 — 95 %
Protection class	IP54
Enclosure materials	Anodized aluminium, stainless steel
Dimensions W x H x D	66 x 63 x 44 mm (option 001)
Weight	230 g (option 001)
Warranty	1 year

Measurement specifications

Particle range	0.3 — 20 µm (spherical equivalent)
Response time	<60 s
Internal channels	16
Sampling interval	10 s
Sample flow rate	0.5 SLM (integrated vacuum pump)
Count rate	10 000 particles/s
Units	µg/m^3
Factory calibration	1 year



Ordering information

M0032-B LPC Module

Options

-001 Integrated pump
-005 T/H sensor
-010 8 - 30 VDC input

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