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BELEAD SENSOR 2021 V1.2 EN EDITION

SENSOR TECHNOLOGY POWERED BY INNOVATIVE MATERIALS

PHOTOIONIZATION DETECTOR

BLPID-201 FOR VOC

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BLPID-201 PHOTOIONIZATION DETECTOR

OVERVIEW

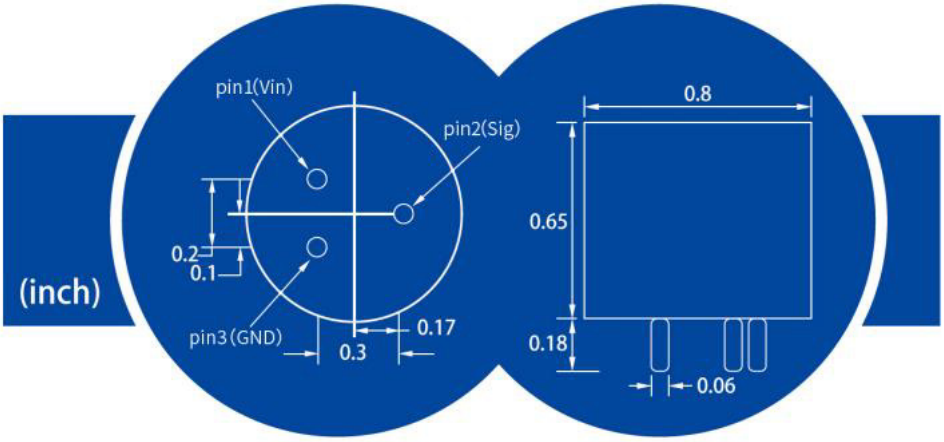
BLPID-201 is a photoionisation PID sensor with high performance. The sensor boasts high sensitivity, wide range and broad spectrum, and is capable of the detection of thousands of volatile organic compounds (VOCs) and some inorganic vapours in a variety of applications. It offers detection ranges of up to 10,000ppm and detection limits down to 1ppb, with extremely fast response and high resolution. BLPID-201 can be applied in hand-held portable instrumentation, on-site fixed instrumentation and also multiple analytical instruments.

- High resolution
- Wide detection range
- Fast response
- High stability
- Long lifespan

APPLICATIONS

- Emergency response
- Industrial health
- Personnel security
- VOCs detection
- Environmental quality monitoring
- Petroleum and petrochemical safety
- Soil pollution and remediation

DIMENSIONS



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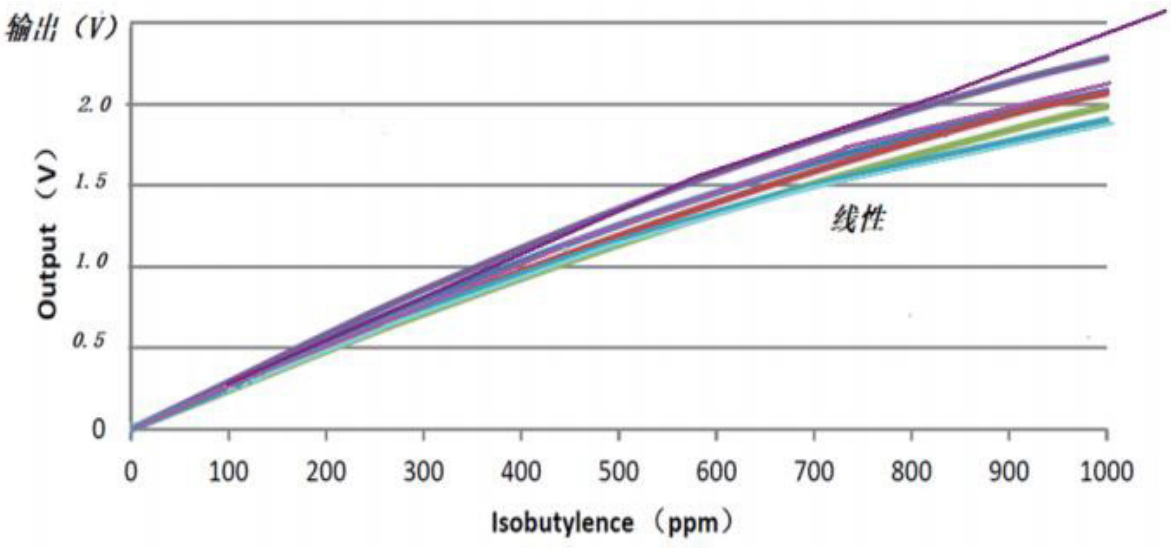
SPECIFICATIONS

Range (ppm)	0~10	0~20	0~40	0~100	0~300	0~1000	0~2000	0~6000	0~10000
Resolution	1ppb	5ppb	10ppb	25ppb	75ppb	250ppb	500ppb	500ppb	2ppm
Sensitivity (mv/ppm)	＞40	＞20	＞10	＞5	＞3	＞1	＞0.3	＞0.1	＞0.1

Target gas	VOC, volatile gases (energy＜10.6eV)
Operating voltage	3~5 V
Zero point voltage	U0＞20 mV
Output signal voltage	0.02~2V (maximum 3.3V)
T90 responsivity	≤5 S
Operating temperature	-40~60℃
Storage temperature	0~25℃
Accuracy	≤±2% （non-condensation）
Humidity	0~99%（non-condensation）
Operating pressure	800~1200mbar
Warranty	12 months



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ATTENTION!

1. The sensor needs to be warmed up for at least half an hour when first used.
2. When calibrating, wait until the sensor is fully stabilised and the zero point calibration should be carried out in dry, clean air.
3. When calibrating, it is recommended to use isobutylene gas at approximately 50% of the range as the calibration source.
4. No hot unplugging of the sensor with electricity.
5. Soldering of the sensor pins is prohibited. The sensor must be connected using the matching tube holder, which is allowed to be soldered.
6. The sensor must not be subjected to excessive impact and vibration.
7. Do not use the sensor in systems where personal safety is involved.
8. Do not install the sensor in an environment with strong air convection to avoid back and forth changes in air pressure which may cause fluctuations in the indicated value or damage to the sensor.
9. Do not use or store the sensor in an environment where the range of the sensor is exceeded for a long time.
10. AD sampling can be directly conducted with the signal from the sensor.

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