



Source Kit

For Micro-Hybrid IR-sources

General Description

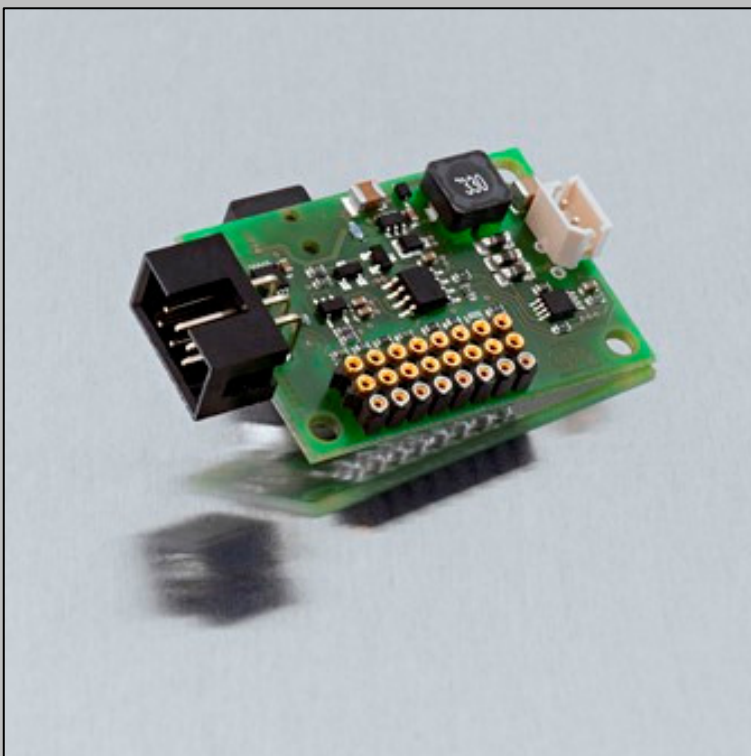
The Source-Board-Kit is designed for Micro-Hybrid's IR-sources. It provides an easy way to evaluate these parts and get started in NDIR gas analysis without developing an electrical circuit and software.

The system is flexible. It optimizes the operating parameters for each specific usage. Flexibility includes easy control of the IR-source.

Evaluation of all components made easy: a fast and simple process.

Applications (for example):

- gas analysis
- contactless temperature measurement
- flame detection
- laboratory and test set-ups



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Source Kit

For Micro-Hybrid IR-sources

- Independent system to test our IR-sources
- Proprietary constant power circuit
- Eliminates drift effects in radiation intensity – caused by aging-related changes in the resistor
- Electrical stress on the source is diminished
- Sources can be operated constantly or in chopped mode
- Operated by external frequency up to 50Hz
- Emitting power adjustable from 0.3 to 1.7 W

Source Kit specifications

Parameter	Min.	Typ.	Max.	Unit	Comment
Supply voltage	10	12	16	V	
Current consumption		5		mA	without IR source
Reference voltage		3.3		V	
Power consumption		0.3 – 1.7		W	adjustable defined by jumper (FB) or potentiometer
Emitter resistance	10	50	70	Ohm	
Operating temperature	0		40	°C	
Frequency range*	0		50	Hz	
Output power accuracy**		≤ ±5%			

* duty cycle discrepancy >5% at higher frequencies

** depends on used emitter resistance and power

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