

Detector Kit

For Micro-Hybrid IR-detectors

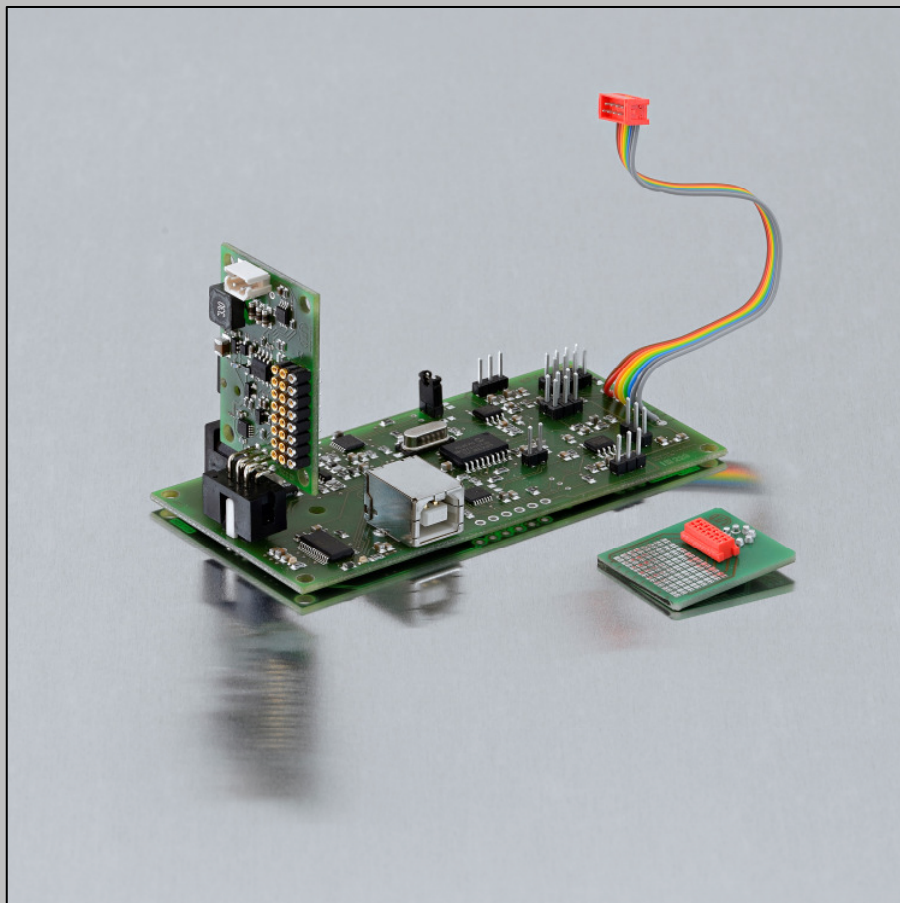
General Description

The Detector-Board-Kit is designed for Micro-Hybrid's thermopile / pyroelectric detectors. 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-detectors. 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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Detector Kit

For Micro-Hybrid IR-detectors

- Independent system for the operation of our IR-sources / for reading all MHE-detectors
- Pyropiles and thermopiles in single, dual and quad configuration
- Maximum capture of two channels simultaneously
- Double-stage amplifier circuit with variable amplification and activatable signal conditioning
- USB interface for communication with the supplied PC-software (for visualization, processing and storage of signals)
- Additional analog output of detector signals on the board
- Amplification adjustable from 2 to 4150
- The entire process is microprocessor-controlled, with 12-bit analog/digital conversion

Detector Kit specifications

Parameter	Min.	Typ.	Max.	Unit	Comment
Supply voltage	10	12	16	V	
Current consumption		60		mA	
Amplification	2 155	- -	55 4150		pyrodetector thermopile
Reference voltage	1.65			V	
Detector supply	±1.65 / +5			V	
Operating temperature	0		40	°C	
Band Width (-3 dB)	1 - 60 0 - 20			Hz	pyrodetector thermopile
Signal acquisition	12Bit, 0... 3.3V, 500Sa/s				
Interface	USB 2.0				

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