Detect it!

Solution kit for detectors based on RL78/I1D

Detectors and sensors are surely one of the fast growing market as part of the change happening with the development of the Internet of things. More and more detectors and sensors are used, especially in building automation systems, like access control system & security system or fire protection system. As a consequence, the detector kit is the perfect tool to answer to the increasing demand for developing more intelligent sensors in a shorter time.
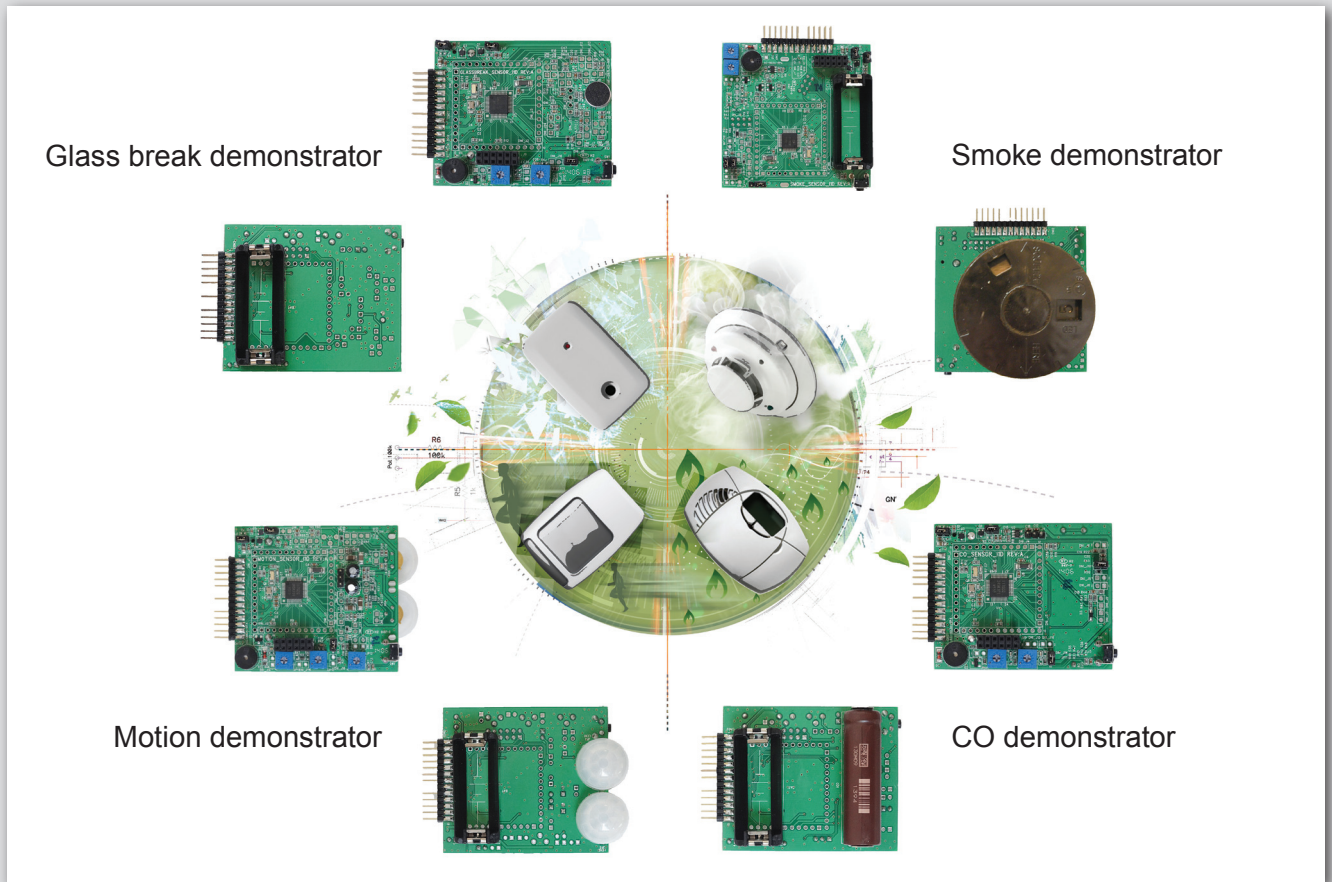
Unique kit for demonstration of detectors

- The detector kit 'Detect it!' includes 4 different types of detector hardware demonstrators
  - » Glass break detector demonstrator
  - » Carbon Monoxide detector demonstrator (also named CO detector)
  - » Motion detector demonstrator
  - » Smoke detector demonstrator
- 1 CD-ROM with documentation

Key Benefits

- Unique demonstrators in the market: get a full working detector in a couple of seconds!
- Everything included to quickly design a detector: Hardware schematics, Gerber, software sample programs, …
- Very low power consumption extends the battery life of your detector – added value to your end product
- RL78/I1D, a member of the RL78 portfolio of microcontrollers has enhanced peripherals designed specifically for detector and sensor applications
- Compact design thanks to integration of features in hardware and compact package availability: 4 mm x 4 mm
- Reduce time to market and cost: Free Applilet graphical design tool to easily set up peripherals and generate code
- Precise and accurate sensing with integrated analog features
- RL78/I1D designed for exceptionally low power consumption allows reception of UART transmission in STOP mode and peripherals that allow a fast response to real time events without CPU involvement
- Extend your knowledge: Documentation included with explanation about the theory of operation for each detector

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Overview of demonstrators

Glass break demonstrator

Smoke demonstrator

Motion demonstrator

CO demonstrator

Overview of information

The detector kit "Detect it!" includes:

- Quick start guide providing short guidelines to quickly starting up the demonstrators
- User manual providing all the details of the boards, including different hardware settings possibilities, details about the samples programs, test guidelines and test results
- Gerber Files for each board
- Schematics for each board
- Part list for each board
- E1 debugger not included – debugger & flasher tool available from Renesas
- IAR samples programs for each board – including C source files, providing all the details about the software for these demonstrators, that can be reused as a starting point for further development

Ordering Information

Order Code	Product
RL78/I1D Solution kit 'Detect it!'	YDETECT-IT-RL78
E1 Debugger & Programmer	YR0E000010KCE00-EE

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Renesas Electronics Europe
www.renesas.eu