



Flood Detector

ES800FL



Operational Description

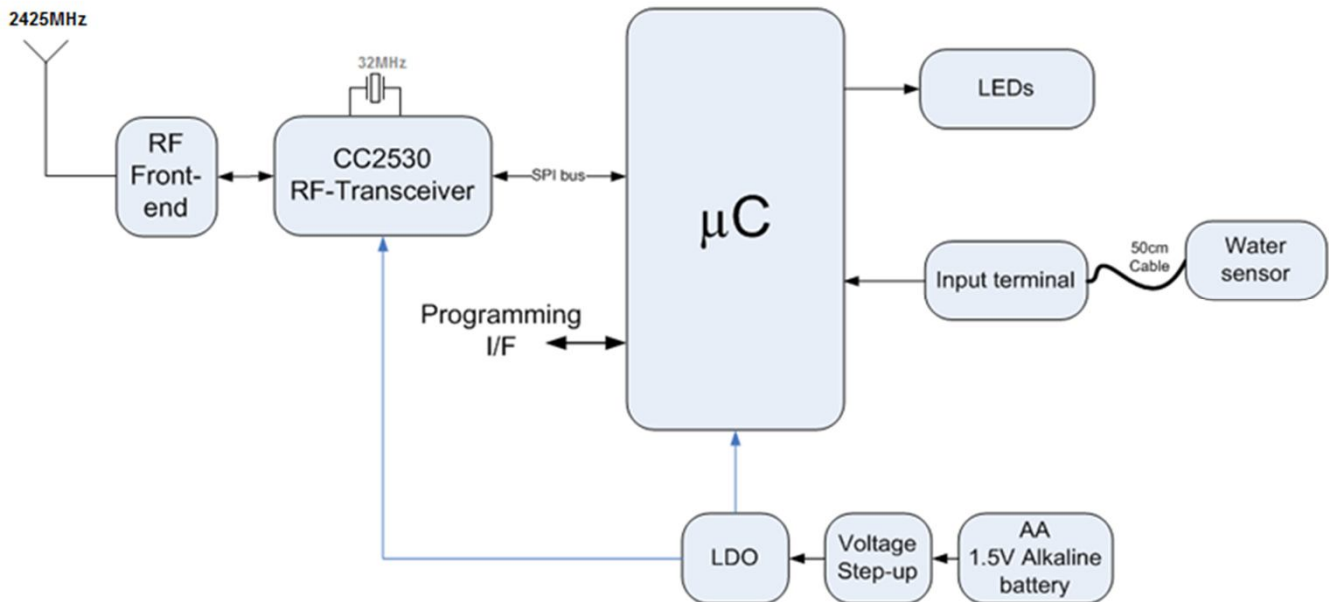
The Flood Detector (FL) ES800FL is a water outpouring early warning peripheral device. The Flood Detector features:

- Alarm upon water leakage
- The alarm is triggered upon water running through the detection element
- Detect developing floods in high-risk areas such as basements, near air conditioners and washing machines, sinks and alike
- Based on advanced proprietary technology
- Requires one (1) AA-size alkaline batteries
- Dual-LED indication for flood detected (red) and flood diminished (green) status.
- Provide long operation period while powered by a single standard AA-size Alkaline
- Support automatic over-the-air software upgrade programming and configuration
- Fastened to the wall/frame by double-sided tape or optional screws
- With regards to communications:
 - Up to 500m RF range (open air)
 - ECOP bi-directional radio protocol (onboard)
 - Modulation and Frequency: DSSS, 2.4GHz
- With regards to security:
 - Data security is ensured with 128-bit AES encryption
 - Tamper alarm – when the Transmitter unit is ripped off its base
 - Unique electronic serial number

Certifications and approvals:



For more information, go to: www.essence-grp.com/pages/WeR/Home



Block Diagram Description

The single AA battery provide power to the step-up + LDO pair. This produce the right regulated voltage needed by the entire circuit.

The main micro-controller gets data from the flood sensor and tamper switch.

It interacts with the RF-transceiver chip.

The product have dual-LED indication for flood detected (red) and flood diminished (green) status