

Capacitance Water Level Sensor

» SUMMARY

Demonstration of water level detection with electrostatic sensor film.

Capacitance detection is generally used for touch panel applications.

Film sheets implementing LED and body indicators respond at various fluid levels.



Demonstration

» FEATURES

1

Simplified design parameters

- ▶ Sensor is comprised of screen printing on PET film sheets.
- ▶ Sheet shape has highly variable design.

2

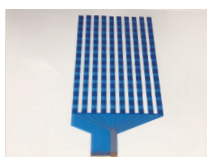
No physical contact between sensing sheet and fluid

- ▶ Ultra clean operation due to no physical contact with fluid.

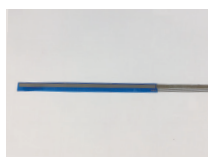
3

Design avoids malfunction and false positives

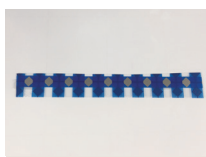
- ▶ Assisted by constant sensor monitoring empty space after initialization.
- ▶ Sensor sheet design promotes minimization of outside interference.



Example1



Example2



Example3

» PRODUCT APPLICATIONS

- Beverage dispenser
- Dish washer
- Irrigation field gauge
- Underpass water level warning
- River water levels
- Storage tank liquid levels

