

Wet process

## A full lineup of sensors that reliably detect liquid leaks



Product name	Discrete sensors Liquid-leak switch with built-in amplifier/ Liquid-leak detection fiber-optic sensor
Model No.	HPQ-D__ / HPF-D040

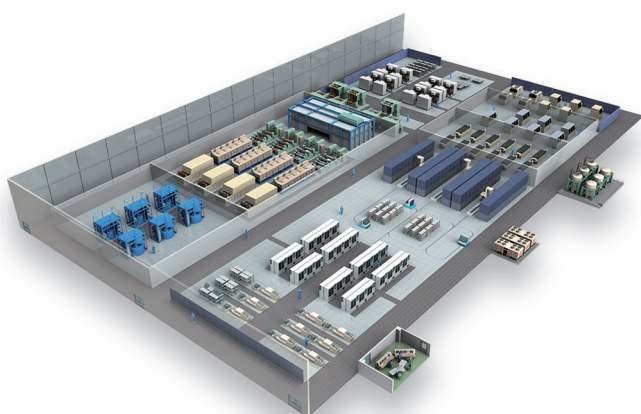
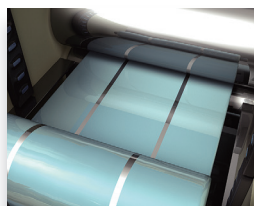
Process and equipment name

### Lithium-ion battery manufacturing process

- Coater
- Electrolytic injection machine

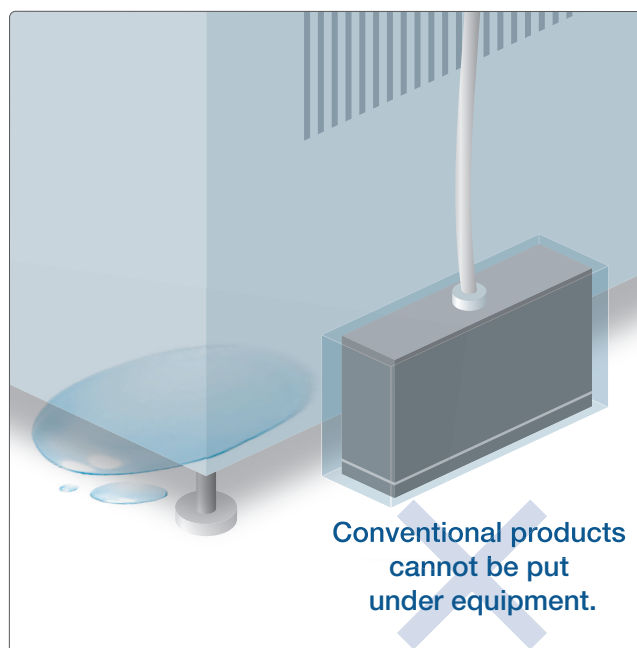
### Current Situation

- Using sensing bands to detect leaks
- Installation in a low location
- Various types of liquids
- Dense wiring



### Current Issues

- Error recovery and maintenance are too slow.
- Selecting the right model for the chemical/solvent takes time.  
Can't detect leaks under equipment: sensor doesn't fit or cable direction is wrong.
- Wires get pulled, leaving the sensor in the wrong place or hanging in the air.



## Solution 1

### Maintenance of optical sensors is quick and easy

After leak detection, simply wipe off the detecting surface to restart the sensor. With optical sensors, the conductivity of the liquid does not matter.

## Solution 2

### Products for various liquid types and environments

PP, PVC, and PFA models with built-in amplifier are available. A PFA fiber-optic model whose detector does not conduct electricity is available.

## Solution 3

### Thin structure allows for installation in tight spaces

Models HPQ-D1\_ and HPQ-D2\_ are just 10.5 mm thick. The cable comes from the side of the sensor, and mounting is also from the side.





## Solution 4

### Locking mechanism ensures secure installation

Models HPQ-D1\_ and HPQ-D2\_ have a support lever locking mechanism that keeps the sensor in the right place.



## Lineup

Model No.	HPQ-DP1_	HPQ-D1_	HPQ-D2_	HPF-D040 (fiber unit)
Appearance				
Case	PP	PFA	PFA	PFA
Bracket	PP	PVC	PFA (SUS)	PFA (SUS)
Fiber jacket	PVC	PFA	PFA	PFA
Detection target	Pure water, industrial water, etc.	Acids, alkalis, Fluorinert, etc.	Organic solvents (except explosion-proof sensors), Fluorinert, etc.	Organic solvents, Fluorinert, etc.

HPF-D040 is a fiber unit. It is used in combination with an amplifier unit.

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