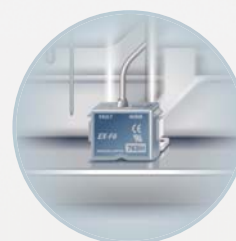
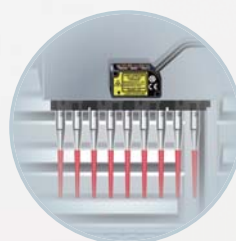


Panasonic

Sensors & Ionizer Solutions Catalog

For Laboratory Automation

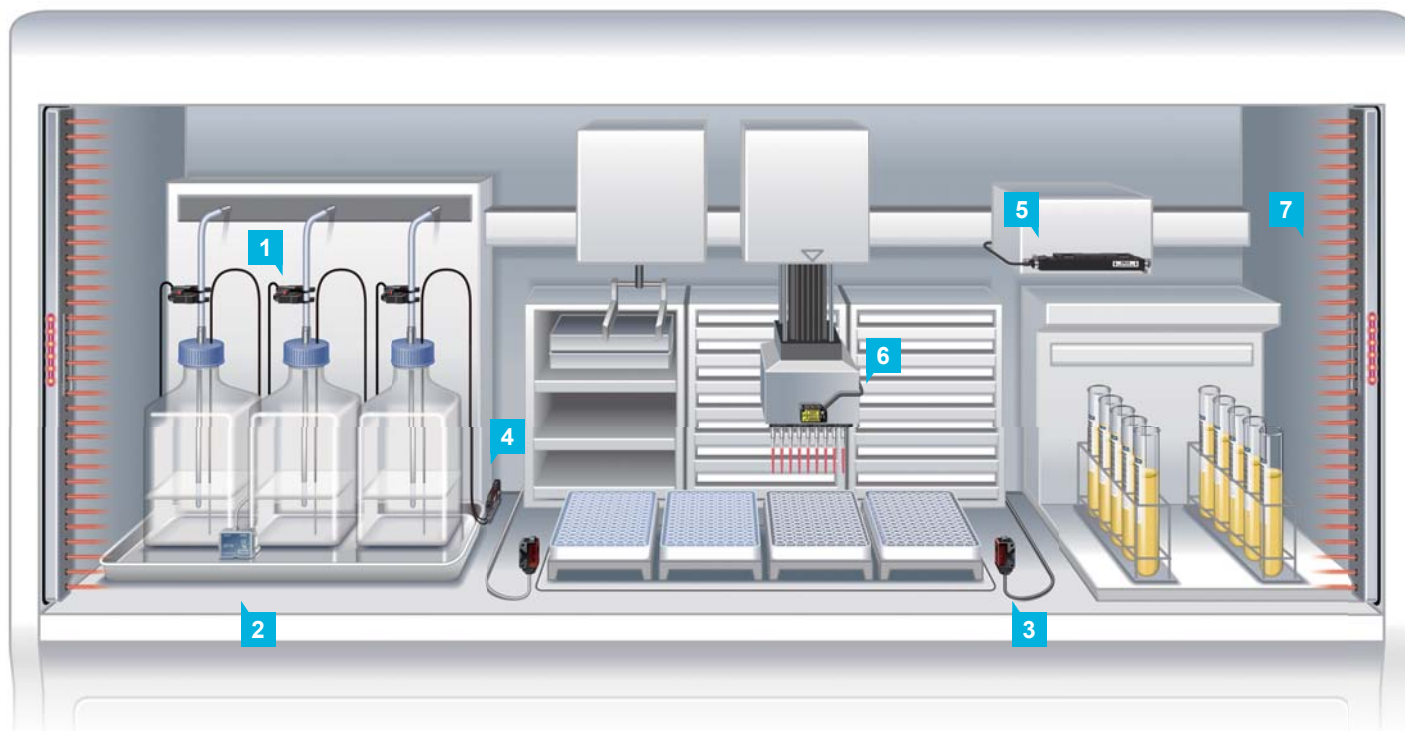
We offer a variety of products that can be applied to laboratory testing devices and liquid conveyance equipment.



For Laboratory Automation

Our many years of advanced technology and know-how in the Factory Automation (FA) industry have led to a wide range of applications.

Panasonic sensors can be integrated with laboratory testing devices and liquid conveyance equipment, contributing to device automation.



1 Detecting the Liquid Level in a Pipe



Pipe-mountable Liquid Level Detection Sensor
Amplifier Built-in

EX-F1

Liquid/air (bubbles) can be detected simply by mounting the sensor onto the pipe. Also ideal to detect when a liquid reagent or cleaning solution runs out.

* For tubes less than 4 mm 0.157 in in diameter and micro bubble detection, please feel free to contact us.

2 Detection of Chemical Solution Leaks



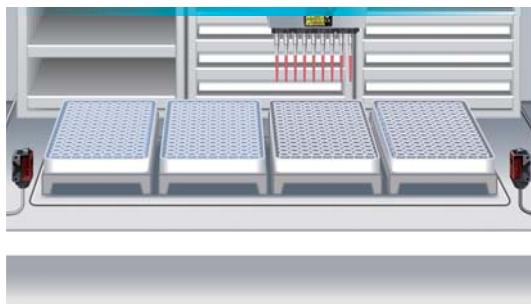
Leak Sensor
Amplifier Built-in

EX-F60 Series

Even small liquid leaks can be detected simply by connecting the sensor. No sensitivity adjustment required. This compact and space-saving sensor can also be used in narrow spaces.

* For a list of liquids which can be detected, please contact us.

3 Work Positioning



Ultra-compact Laser Sensor

Amplifier Built-in

EX-L200 Series

Distinctive features of these lasers include their high degree of directionality and visibility. Ultra-compact in size, yet provides high-precision detection performance. Ideal for positioning microplates.

[Related Products]



Ultra-slim Photoelectric Sensor

Amplifier Built-in

EX-10 Series Ver.2

This ultra-slim photoelectric sensor (only 3.5 mm 0.138 in in thickness) can be mounted in a very small space. Ideal for detection in test tube racks.



Ultra-small U-shaped Micro Photoelectric Sensor

Amplifier Built-in

PM-24 Series

This ultra-small photoelectric sensor enables space saving. Ideal for detection of overrun and starting points in operating units.



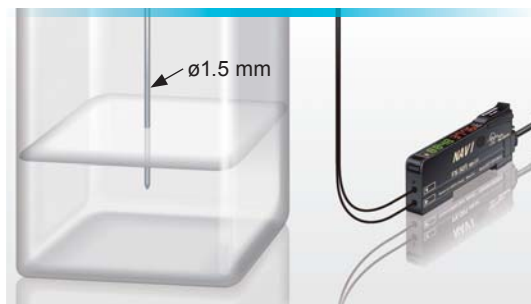
Rectangular-shaped Inductive Proximity Sensor

Amplifier Built-in

GX-F/H Series

This IP68 rated sensor has strong water and environmental durability. Able to withstand considerable shock and vibration, it is ideal to confirm chucking performed by a robot arms, etc.

4 Detection of Any Remaining Liquid in a Solution Bottle



Contact Liquid Level Detection Fiber & Digital Fiber Sensor

FX-500 Series Ver.2

This sensor features a fluorine resin coated fiber head, and can be used for different types of solution. With a 1.5 mm 0.059 in fiber head, the sensor can also be used for small bottles.

5 Static Elimination in Test Tubes and Microplates



Area Ionizer

Pulse AC Method

ER-X Series

This airless operating ionizer can eliminate static electricity on the target object without worry of volatilization of valuable reagents or dispersion of contaminants.

[Related Products]



Compact Fan Type Ionizer

High-frequency AC Method

ER-Q Series

Fan-type ionizer is also part of our product lineup. This palm-sized ionizer can be mounted just like a sensor.

6 Control of the Dispenser Nozzle Height



Micro Laser Distance Sensor

CMOS Type

HG-C Series

Achieving high-precision measurement to an order of 1/100 mm for greater precision performance than conventional adjustable range reflective sensors. This industry's smallest* sensor is also ideal for built-in installation.

* As of March 2014 (according to our data)

7 Operator Safety Measures



Ultra-slim Light Curtain

Type2

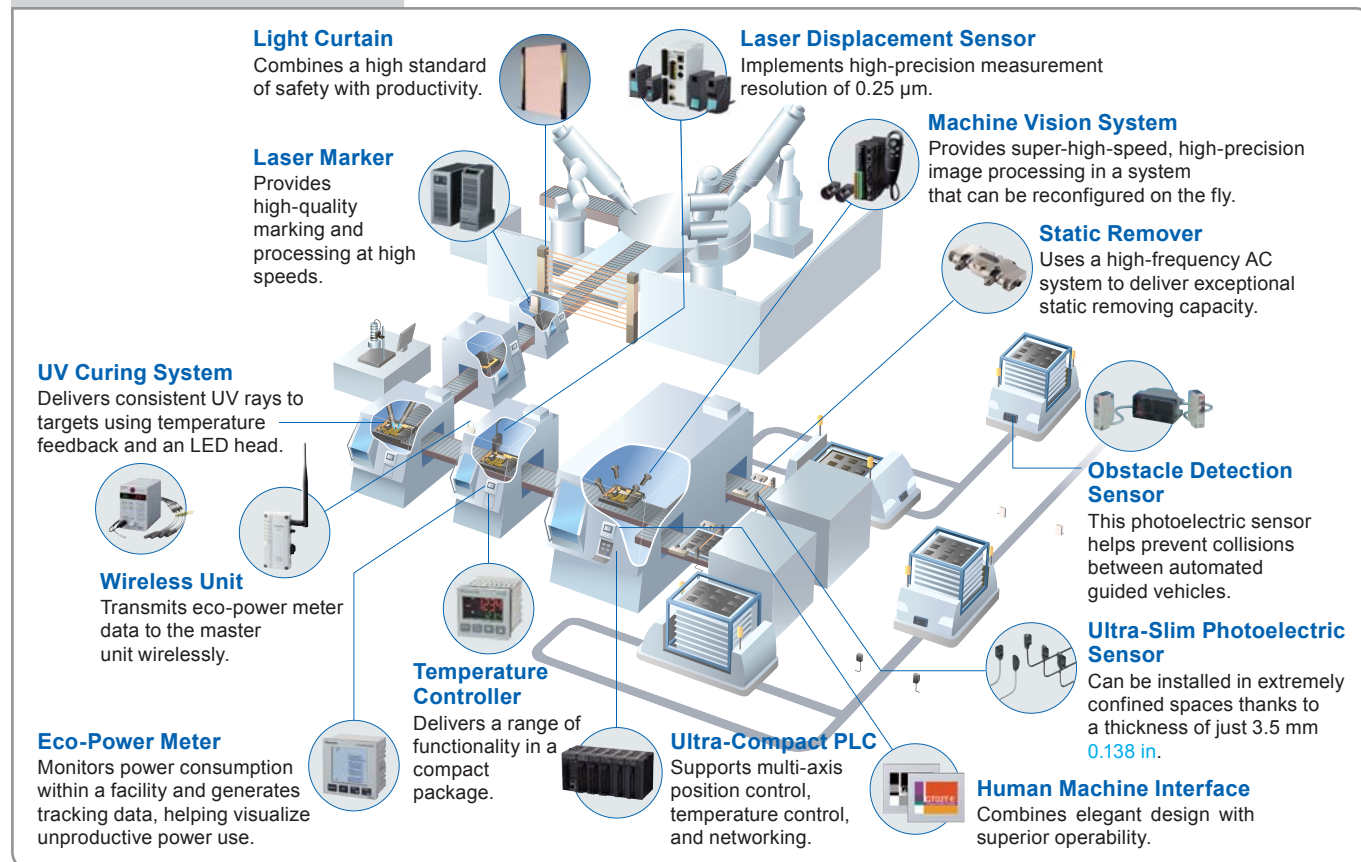
SF2C Series

This light curtain ensures safety by automatically stopping a line whenever a person is detected. The slim design (thickness 13 mm 0.512 in) provides a wide machine opening and improved workability.

At Panasonic Industrial Devices SUNX, we strive to build a brighter future by creating new values that have never existed before, with the support of our customers.

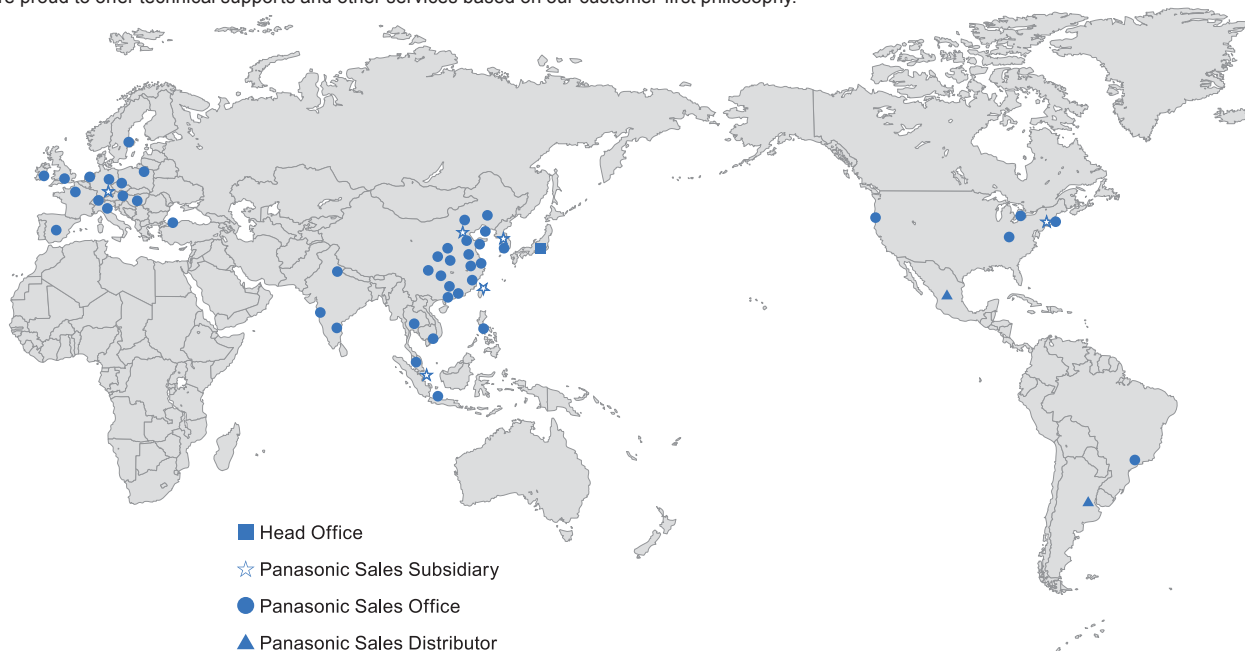
With the comprehensive strength obtained from our sensing, laser and image processing technologies, high speed laboratory automation with greater efficiency can be achieved. And, our integrated controller/web-server technology allows one to view the control status of the controller and collected information via an electronic tablet or computer over an Internet browser. By monitoring the condition of the equipment, maintenance performance can be improved.

Products Contributing to Automation



Sales Network

We, Panasonic Industrial Devices SUNX Co., Ltd. provide products, technologies, and services through the worldwide Panasonic sales network, which encompasses the Americas, Europe, China, and Southeast Asia, etc. We've put in place local support organizations staffed by technical specialists and are proud to offer technical supports and other services based on our customer-first philosophy.



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