

Panasonic Electric Works

Measurement sensor HG-C1000L

Displays current measured distance

Pressure sensor DP-100L

Standard and high-function typeDual display with 12 segment font

> Vacuum and high pressure type

Photoelectric sensor FX-550L

> Large number of optical fibers available

High emission power

Many built-in functions

Long range

Different models (for panel or wall mounting)

> Resolution 0.05%

Repeatability 10µmLaser class 1

Compact and light weight

Please contact our Global Sales Companies in:

Europe		
▶ Headquarters	Panasonic Electric Works Europe AG	Robert-Koch-Straße 100, 85521 Ottobrunn, Tel. +49 89 45354-1000, Fax +49 89 45354-2111, www.panasonic-electric-works.com
▶ Austria	Panasonic Electric Works Austria GmbH	Josef Madersperger Str. 2, 2362 Biedermannsdorf, Tel. +43 (0) 2236-26846, Fax +43 (0) 2236-46133 www.panasonic-electric-works.at
	Panasonic Industrial Devices Materials Europe GmbH	Ennshafenstraße 30, 4470 Enns, Tel. +43 (0) 7223 883, Fax +43 (0) 7223 88333, www.panasonic-electronic-materials.com
▶ Benelux	Panasonic Electric Works	De Rijn 4, (Postbus 211), 5684 PJ Best, (5680 AE Best), Netherlands, Tel. +31 (0) 499 372727, Fax +31 (0) 499 372185,
	Sales Western Europe B.V.	www.panasonic-electric-works.nl
Czech Republic	Panasonic Electric Works Europe AG, organizační složka	Administrative centre PLATINIUM, Veveri 3163/111, 616 00 Brno, Tel. +420 541 217 001, Fax +420 541 217 101, www.panasonic-electric-works.cz
▶ France	Panasonic Electric Works Sales Western Europe B.V.	Succursale française, 10, rue des petits ruisseaux, 91370 Verrières Le Buisson, Tél. +33 (0) 1 6013 5757, Fax +33 (0) 1 6013 5758, www.panasonic-electric-works.fr
Germany	Panasonic Electric Works Europe AG	Robert-Koch-Straße 100, 85521 Ottobrunn, Tel. +49 89 45354-1000, Fax +49 89 45354-2111, www.panasonic-electric-works.de
Hungary	Panasonic Electric Works Europe AG	Magyarországi Közvetlen Kereskedelmi Képviselet, 1117 Budapest, Neumann János u. 1., Tel. +43 2236 26846-25, Mobile: +36 20 264 9896, Fax +43 2236 46133, www.panasonic-electric-works.hu
▶ Ireland	Panasonic Electric Works UK Ltd.	Irish Branch Office, Dublin, Tel. +353 (0) 14600969, Fax +353 (0) 14601131, www.panasonic-electric-works.co.uk
Italy	Panasonic Electric Works Italia srl	Via del Commercio 3-5 (Z.I. Ferlina), 37012 Bussolengo (VR), Tel. +39 0456752711, Fax +39 0456700444, www.panasonic-electric-works.it
Nordic Countries	Panasonic Electric Works Europe AG Panasonic Eco Solutions Nordic AB	Filial Nordic, Knarrarnäsgatan 15, 164 40 Kista, Sweden, Tel. +46 859476680, Fax +46 859476690, www.panasonic-electric-works.se Jungmansgatan 12, 21119 Malmö, Tel. +46 40 697 7000, Fax +46 40 697 7099, www.panasonic-fire-security.com
Poland	Panasonic Electric Works Polska sp. z o.o	ul. Wołoska 9A, 02-583 Warszawa, Tel. +48 42 230 9633, www.panasonic-electric-works.pl
Spain	Panasonic Electric Works España S.A.	Barajas Park, San Severo 20, 28042 Madrid, Tel. +34 913293875, Fax +34 913292976, www.panasonic-electric-works.es
Switzerland	Panasonic Electric Works Schweiz AG	Grundstrasse 8, 6343 Rotkreuz, Tel. +41 (0) 41 7997050, Fax +41 (0) 41 7997055, www.panasonic-electric-works.ch
→ United Kingdom	Panasonic Electric Works UK Ltd.	Sunrise Parkway, Linford Wood, Milton Keynes, MK14 6 LF, Tel. +44 (0) 1908 231555, Fax +44 (0) 1908 231599, www.panasonic-electric-works.co.uk
North & South An	nerica	
▶ USA	Panasonic Industrial Devices Sales Company of America	Two Riverfront Plaza, 7th Floor, Newark, NJ 07102-5490, Tel. 1-8003-442-112, www.pewa.panasonic.com

sonic Electric Works Sales (China) Co. Ltd. Tower C 3rd Floor, Office Park, NO.5 Jinghua South Street, Chaoyang District, Beijing 100020, Tel. +86-10-5925-5988,

Suite 301, 3/F, Chinachem Golden Plaza, 77 Mody Road, TST East, Kowloon, Hong Kong, Tel. +852-2529-3956, Fax +852-2528-6991

1006, Oaza Kadoma, Kadoma-shi, Osaka 571-8501, Japan, Tel. +81-6-6908-1121, www.panasonic.net

No.3 Bedok South Road, Singapore 469269, Tel. +65-6299-9181, Fax +65-6390-3953

Fax +86-10-5925-5980

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Panasonic Industrial Devices

Automation Controls Sales Asia Pacific

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Panasonic

Overview



IO-Link

With the laser measurement sensors of the HG-C1000L series, the pressure sensors of the **DP-100L** series, and the fiber sensor amplifier **FX-550L**, Panasonic offers a wide range of IO-Link capable sensors, which can be used to realize applications for Industry 4.0.

The automation industry is undergoing changes - machines are getting more and more complex, have started to communicate with each other, monitor their own operation status, and are able to detect errors at an early stage. All of this requires large amount of data, data processing, and evaluation. Sensors are generating data all of the time when they act as the

senses of a machine. They recognize parts and measure pressures, lengths, or sizes.

Now it is possible to feed the data easily into the machine network with the help of the universal IO-**Link standard** and an interface. Thanks to the bidirectional data transfer via IO-Link, it is possible to set or read out sensor parameters with a decentralized system.

One of the main advantages of IO-Link is that parameters can be copied across to a new device when a device has to be replaced. This eliminates the risk of errors caused by users setting the sensor parameters manually.

The data can be used specifically to minimize standstill times because problems on the sensor level are detected well in advance. In addition, the search for error causes is made much simpler as many data are known beforehand.

All IO-Link sensors from Panasonic have an integrated self-diagnosis function. The self-diagnosis function monitors function parameters specific to the sensor type and automatically outputs a warning signal if deviations from the specified behavior occur. Users save time because for maintenance it is sufficient to monitor only one signal instead of a number of sensor parameters.

IO-Link from Panasonic

For the first time, the IO-Link technology has been implemented in sensor series from Panasonic. Fiber sensor amplifiers (**FX-550L**), pressure sensors (DP-100L series), and measurement sensors (HG-C1000L series) now can communicate via IO-Link. In addition to the standard benefits of IO-Link such as external parametrization and simple replacement of devices, Panasonic offers an integrated self-diagnosis function.

This function contains pre-defined warning levels for each type of sensor. The sensor automatically

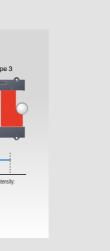
sends a warning signal when its functionality is compromised, for example the FX-550L outputs a warning when it detects a decrease in light intensity at the receiver. This way, users receive error messages specifically for the problem at hand without extra programming effort.



Ether CAT.

EtherNet/IP

IO-Link



Detection of different objects

Benefits for customers



Reduction of costs

The standardized connection with M12 connector cables makes the installation easy and simplifies stock management.



Reduction of time and effort

IO-Link sensors can be connected in a fast and easy manner. Central parametrization saves time because it works for several devices at the same time (configuration, replacement).



Self-diagnosis function

The built-in self-diagnosis function outputs sensor-specific signals, e.g. a warning when the light intensity at the receiver decreases. This saves the users the trouble of implementing a diagnosis function for Panasonic sensors themselves.



Machine availability

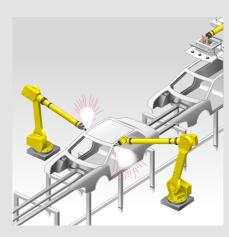
Machine availability is improved considerably because all values and parameter can be read and processed centrally in real time.



Innovation

The sensors of the future speak IO-Link. This way it is possible to realize innovative machine concepts. Lot size 1 is possible.

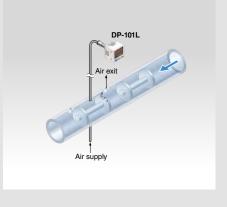
Applications



Monitoring with sensors to minimize standstill times

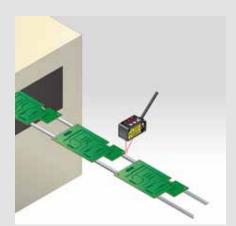


Remote parametrization for devices in places difficult to access



Pressure monitoring

Applications



Detection and measuring of circuit boards