



IO-Link Compatible Components Series

Improving plant productivity using IoT



INTERNET OF THINGS
TECHNOLOGY

CKD Corporation


CC-1424A

Predictive Maintenance



Mass Customization



 **IO-Link**

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CKD

Plug & Play



Autonomous Control



FLUEREX flow rate sensor for water

WFK2 Series

Specifications

- Flow rate range: 0.4 to 250 L/min
- Applicable fluids: pure water, industrial water
- IO-Link communication specifications
 - Transmission speed: COM2 (38.4 kbps)
 - Min. cycle time: 5 ms

Features

- **Water temperature measuring feature** is standard for all models
- Manual valve for easy **flow rate adjustment** (option)
- Display screen rotation



Capacitance electromagnetic flow sensor

WFC Series

Specifications

- Flow rate range: 0.5 to 60 L/min
- Applicable fluids: water, fluids that do not corrode wetted part materials (conductive fluids)
- IO-Link communication specifications
 - Transmission speed: COM2 (38.4 kbps)
 - Min. cycle time: 5 ms

Features

- The **Flo-Thru structure** allows use even with water of poor quality
- Max. working pressure: 2.0 MPa
- **Fluid temperature measurement function** (option)





Compact flow rate sensor RAPIFLOW®

FSM3 Series

Specifications

- Flow rate range: 0.5 L/min to 1000 L/min
- Applicable fluids: clean air, compressed air, nitrogen, argon, oxygen*, carbon dioxide, and gas mixture (argon + carbon dioxide)
*For stainless steel body only
- IO-Link communication specifications
Transmission speed: COM2 (38.4 kbps)
Min. cycle time: 5 ms

Features

- **Five types of gases** can be measured with **just one unit** thanks to the gas type switching function
- Body material: resin, stainless steel (can be used selectively depending on the environment)
- Uni-directional and bi-directional fluid measurement
- **High precision/high responsiveness**
Repeatability: Within $\pm 1\%$ F.S.
Display accuracy: Within $\pm 3\%$ F.S.



Digital pressure sensor

PPX Series

Specifications

- Set pressure
For low pressure: -101.0 to $+101.0$ kPa
For high pressure pressure: -0.101 to $+1.010$ MPa
- IO-Link communication specifications
Transmission speed: COM3 (230.4 kbps)
Min. cycle time: 1.0 ms

Features

- **Compact size** of 30×25.5
- Set value can be changed while viewing the present value
- Oil free wetted section (option)



Contact confirmation switches (digital gap switch)

GPS3 Series

Specifications

- Working pressure: 50 to 200 kPa
- Detection range scale
Short range: 0.02 to 0.15 mm
Wide range: 0.03 to 0.4 mm
- IO-Link communication specifications
Transmission speed: COM2 (38.4 kbps)
Min. cycle time: 5 ms

Features

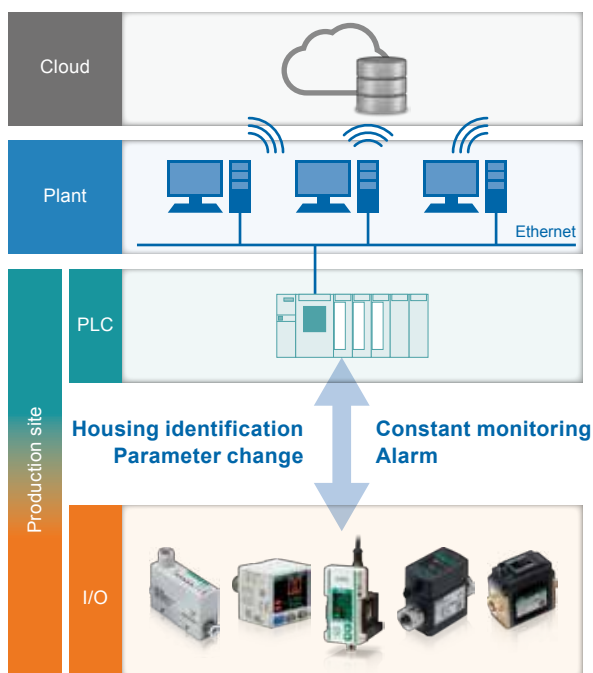
- Confirm sitting state at a glance with the digital display screen
- **High precision 2-point output**
- Detection air flow **clog notification function**



What is IO-Link?



IO-Link is a digital communication specification for on-site sensors and actuators in plants. (IEC61131-9)
This enables the transmission of parameters and event data that could not be transmitted by analog communication.



Features of IO-Link



Continuous monitoring is enabled by the use of digital data.



Parameters can be set or changed via a network, allowing apparatus to be remote-controlled.



The model No., serial No. or other unit-unique information can be confirmed on the network.



Settings can be copied from a master (scanner) unit. This frees the operator from the trouble of having to reset parameters during maintenance.



Device failures and disconnections can be confirmed.



It is possible to connect by changing to an Ethernet network, enabling the creation of an IoT system.

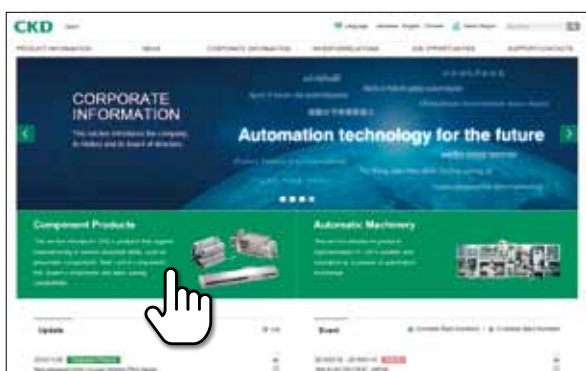
*IODD files for each product can be downloaded from the CKD website.

Website introduction

You can download CKD product PDF catalogs and CAD data.



<https://www.ckd.co.jp/>



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