



Upgrade your water skid with  
ifm's Industry 4.0 system  
solution!



See the difference  
with ifm ...

PLC / HMI Controllers  
SPECIAL OFFER ENCLOSED



Can I remotely monitor my machines status?

Is it possible to implement flexible software to improve new functions on my machine?

How can I improve the customer experience using a human machine interface?

What type of intelligent sensors can help me predict machine failures and protect diagnostics?

Is there a way to reduce the cost of my machine and upgrade its control systems?

I want to reduce my control cabinet size.

I need to reduce manufacturing time to meet customer demand.

Can I remotely change parameters for remote sites?

Did someone say codesys is free with no licence costs?





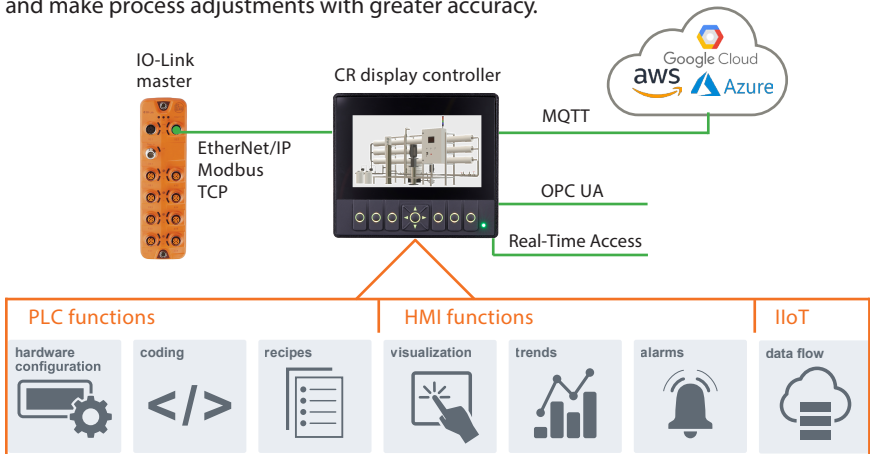


## ifm's Industrial Controller provides diagnostics and machine control in real time

ifm specialises in automation technology. Our multi-functional display controller and IO-Link products form a complete systems solution that improves quality and machine performance... at a lower cost of ownership than your system today!

### STARTER KIT OFFER – TEST YOUR FIRST PROOF OF CONCEPT!

Since sensor values are transmitted to the controller/PLC and displayed in real time, the operator will be able to analyse the data and make process adjustments with greater accuracy.



### Discover ifm!

PART NO. ZHL054  
CONTROLS STARTER KIT  
(Details pg. 7)

### SPECIAL OFFER \$1,399 ex GST

(Complimentary Training)



List of products apart of the offer:

- **CR1140** Controller
- **AL1122** IO-Link Master
- **EVC706** Power connecting cable for IO-Link master
- **EVC905** Communications cable for controller - IO-Link master
- **EVC925** Ethernet connection cable for configuration
- **EVC196** Connecting cable with socket for power to the controller

Have a technical question? Our team of experienced application engineers is ready to assist you.

# Benefits of ifm's CR controller vs PLC

The ifm controllers offer distinct advantages over a standard PLC, including integrated IO-Link support, advanced monitoring capabilities, and simplified programming for efficient and flexible automation solutions at a much lower cost.

	Display controller	Standard PLC
		
Controller		
64 bits ARM dualcore, 1.4 GHz	✓	✗
Multiple protocols (EIP & Modbus)	✓	✗
Dual IP	✓	\$
I/O		
Utilise IO-Link technology	✓	✗
Allow maximum amount of I/O at a low cost	✓	\$\$
Automatic sensor parameter replacement	✓	✗
Sensor diagnostics	✓	✗
Digital communication	✓	✗
Easy installation with M12 sensor cables	✓	✗
Software		
Programming software - Codesys protocol vs. proprietary	Included	Subscription
IIOT	Included	Extra
Recipe/batch management	Included	Extra
Mechanical properties		
IP67 Rating, no cabinet required	✓	✗
Total Cost of Ownership	\$	\$\$\$



To learn more scan the QR code

# Codesys software benefits



CODESYS is a robust software platform designed for programming and controlling industrial automation systems. With its user-friendly interface and support for multiple programming languages, CODESYS offers a flexible and scalable solution that simplifies the design of complex automation systems.



## Hardware configuration

- Easy-to-use open-source software for application programming
- Find devices connected to the network
- Configure data and parameters for integrated fieldbus device such as IO-Link masters



## Coding

- Offer six different programming languages (FBD, CFC, SFC, ST, LD, IL)
- Developed libraries that can be easily implemented



## Recipes

- Import multiple recipes list and values from excel or csv files
- Set and monitor specific process values of batch systems



## Visualisation

- Reduce HMI development time with visualisation libraries
- Drag and drop elements or imported image to create operating interfaces
- Manage users and groups with different permissions



## Trends

- Provide real-time recording of multiple process values to a data storage
- Display time chart using visual element "Trending"
- Export trend data as a csv or xlsx file for further analysis



## Alarms

- Display registered alarms with real-time clock (RTC) timestamp
- Configurable reaction to alarms events
- Export alarms history as a csv or xlsx file for further analysis



## Data Flow

- Provide direct communication to cloud services (AWS, Azure, etc) with IIoT libraries
- Support different communication protocols such as MQTT, HTTPS
- Include tools to parse data structures (JSON, XML, CSV)



To learn more scan  
the QR code

# The future of automation starts with IO-Link

IO-Link is the foundation of Industry 4.0. It provides a true digital process value from the sensor to the controller and is a lower cost alternative to analogue signals. IO-Link benefits are:



## Improve product quality and process transparency

- No signal loss due to multiple A/D conversions
- 100% digital process values



## Improve machine availability

- Easy initial sensor setup
- Automatic parameter transfer enables fast sensor change



## Reduce system complexity

- Monitor multiple process values from one sensor over one wire
- Eliminate analogue scaling issues



## Reduce machine setup and changeover time

- Remote parameterisation of sensors
- Recipe changes ready on the fly



## Reduce unexpected downtime

- Continuous machine condition monitoring and diagnostics indicate machine health
- Allows for scheduled maintenance rather than costly unexpected downtime



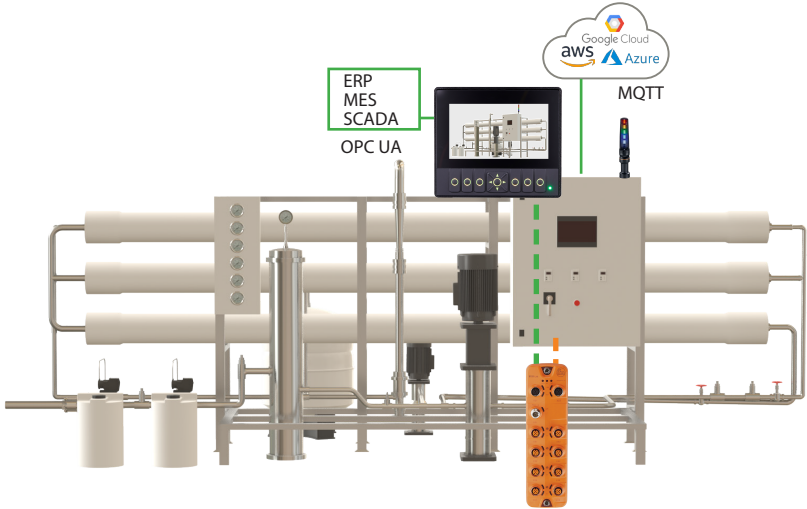
## Provide system flexibility

- Fieldbus independent improves efficiency for OEM machine builders
- Fast integration into existing controls architecture



To learn more scan  
the QR code

Our Industrial Controls Starter Kit, Part No Z: >' & has all the components you need to automate control and upgrade your machine for Industry 4.0!



#### Possible Accessories Include:

- 1 SM Magflow Meter



- 2 SV Vortex Flow Sensor



- 3 SU Ultrasonic Flow Meter



- 4 SA Thermal Flow Meter



- 5 PV Pressure Sensor



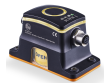
- 6 PN Pressure Sensor



- 7 VVB Vibration Sensor



- 8 MVQ Valve Feedback Sensor



- 9 DV Light Stacker

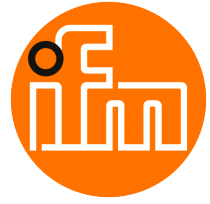


- 10 LDL Conductivity Meters



- 11 Cables





## About ifm...

**ifm people.** Team ifm is committed to helping you succeed in your business. We directly service and work with customers across Australia and have regional specialists to assist you with your specific application needs.

**ifm products.** For over 50 years, ifm has developed and manufactured sensors and controls. With the evolution of Industry 4.0 ifm has become a leader in producing systems solutions. Our products help to increase machine performance, make changeovers more flexible, and improve product quality.

**ifm understands.** Our experience has taught us that each industry has unique challenges in production automation. We develop and customise our sensors and controls to meet the demands of each market.

**Global presence.** ifm Australia is a subsidiary of the German-based company ifm electronic gmbh. You can count on ifm anywhere in the world. From any employee in 165 countries, you will experience the same dedication to understanding your business and finding solutions to your needs.



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1300 365 088



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Water & Wastewater  
Industry Specialist