



Remote Telemetry Protocols

C Controller Based

Including straton and zenon

control and visualisation solutions



e-Factory
Partner Product



Easy telemetry data collection and status reporting from field devices with remote terminal protocols

True independence – with over 300 native drivers and communication protocols

Certified for Windows 7, encrypted network technology, ready for FDA 21 CFR part 11

Monitoring from Field Devices to Central Monitoring



zenon and straton – successful in a variety of industries, with over 80,000 installations worldwide

Remote Information

Remote measurement and reporting from field devices, such as pumping stations, oil and gas lines, and environmental equipment is becoming increasingly important.

It is necessary therefore, to have real time and reliable information over existing cable communication routes or over wireless connections.

Also, with so many different potential applications, there is a need for different protocols to provide a seamless flow of data.

By supporting these protocols in existing control systems engineering time and effort can be significantly reduced, whilst guaranteeing proven, secure communication technology.

Mitsubishi Electric's solution to meet this demand is to work with market leading companies to develop best-of-breed solutions, tailored to the requirements of key industry sectors. These solutions integrate seamlessly with Mitsubishi Electric hardware as part of the e-F@ctory concept for improving the performance of the enterprise.

Mitsubishi Electric e-F@ctory partners bring unrivalled expertise in key market sectors that require tailored solutions coupled with far-reaching understanding of specific legislation and standards.

Seamless Integration

Mitsubishi Electric has teamed up with COPA-DATA to provide the necessary level of seamless integration between its renowned automation hardware and COPA-DATA's market leading control and visualisation products, including different telemetric protocols.

COPA-DATA is an innovation leader in industrial automation software. With knowledge and experience gained from over 80,000 installed systems across the globe, COPA-DATA is always setting standards and developing new solutions for improving automation and efficiency.



A production line management system with zenon

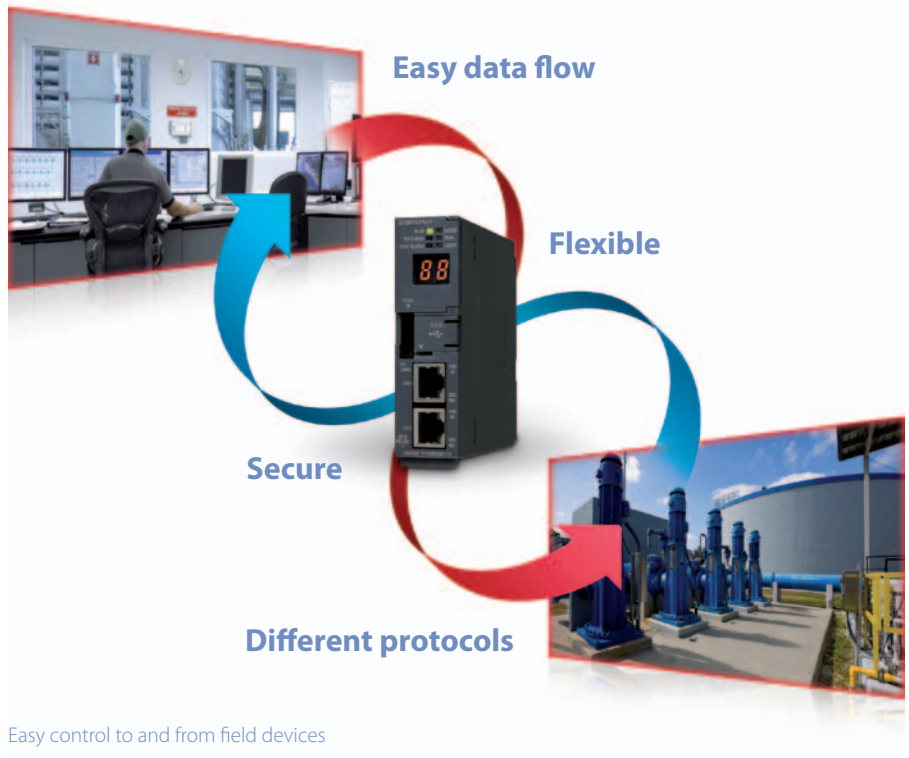
The Power of Partners

COPA-DATA's straton software is a soft PLC that runs on Mitsubishi Electric's C Controller, whilst zenon is an open-design, object orientated industrial HMI and SCADA software package that is able to communicate directly with the iQ Platform.

The straton IEC 61131-3 kernel runs on the Mitsubishi C Controller. Inside the kernel, the variables from the different connected field devices, with their specific connection protocol are defined. That enables users to define a variable and configure it - for example an IEC 61850 variable or data from a field device and copy it to the Mitsubishi PLC. The reading and writing from the iQ Platform to this device is easily achieved via the protocol.

The benefit to the customer is the ability to use the wide range of protocols that are available through the COPA-DATA solution.

In an alternative configuration it is possible to run the control system with the C Controller as a standalone system in a field application. The C Controller with the zenon IEC 61131 project environment is therefore able to control the field device with all the Mitsubishi I/O and analog inputs.



Easy control to and from field devices

The combination of COPA-DATA's experience, comprehensive protocol capabilities and the integrated hard and software solution from Mitsubishi's iQ Platform enables customers across a wide range of applications to achieve seamless control of their remote telemetry applications.

Open and flexible

In addition to IEC 61850, Mitsubishi Electric also supports over 50 network connection types including field networks like CC-Link, Profibus, DeviceNet to Ethernet based technologies such as CC-Link IE, Ethercat, Ethernet IP and Profinet. Specialist communication technologies are also well covered, including I/O Link, Hart as well as protocols such as IEC 60870, DNP3 and Weihenstephan for example. Mitsubishi's communication solutions range from dedicated special function cards to function blocks and C based programming solutions. This gives users flexibility and openness to support their communication needs.



Mitsubishi I/O configurator in straton

Global Standards

COPA-DATA has specific expertise within the food and beverage, energy and infrastructure, automotive manufacture and pharmaceuticals industries, enabling Mitsubishi Electric to bring tailored solutions and support to these important sectors, with full compliance to standards such as FDA 21 CFR part 11 for pharmaceutical projects and IEC 61850 for power utility automation projects.



COPA-DATA protocols

- BACnet
- CAN/CANopen
- DNP3
- Ethernet/IP
- IEC 60870
- IEC 61850
- IEC 61400-25
- Profnet

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