



# 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.

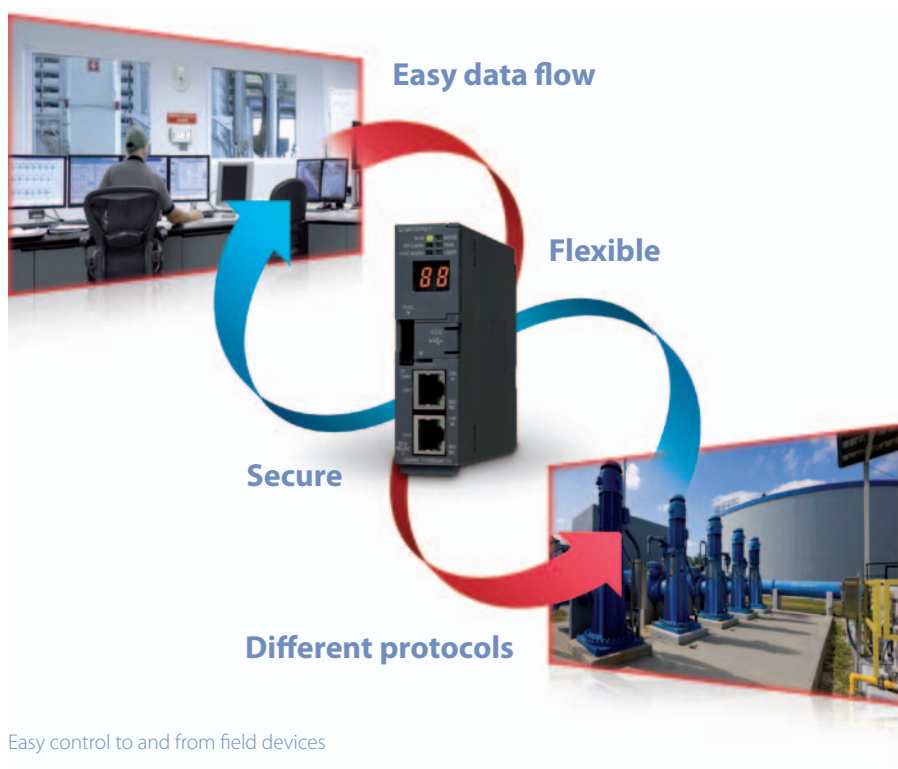
In an alternative configuration it is possible to run the control system with the C Controller as a standalone system in a field application. The C Controller with the zenon IEC 61131 project environment is therefore able to control the field device with all the Mitsubishi I/O and analog inputs.



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.



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.

# Configuration ///



## COPA-DATA protocols

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

### EUROPEAN BRANCHES

MITSUBISHI ELECTRIC EUROPE B.V. Gothaer Straße 8 <b>D-40880 Ratingen</b> Phone: +49 (0)2102 / 486-0	<b>GERMANY</b>
MITSUBISHI ELECTRIC EUROPE B.V.-org.sl. <b>CZECH REP.</b> Radlická 714/113a <b>CZ-158 00 Praha 5</b> Phone: +420 - 251 551 470	
MITSUBISHI ELECTRIC EUROPE B.V. 25, Boulevard des Bouvets <b>F-92741 Nanterre Cedex</b> Phone: +33 (0)1 / 55 68 55 68	<b>FRANCE</b>
MITSUBISHI ELECTRIC EUROPE B.V. Viale Colleoni 7 <b>I-20041 Agrate Brianza (MB)</b> Phone: +39 039 / 60 53 1	<b>ITALY</b>
MITSUBISHI ELECTRIC EUROPE B.V. Krakowska 50 <b>PL-32-083 Balice</b> Phone: +48 (0)12 / 630 47 00	<b>POLAND</b>
MITSUBISHI ELECTRIC EUROPE B.V. 52, bld. 3 Kosmodamianskaya nab 8 floor <b>RU-115054 Moscow</b> Phone: +7 495 721-2070	<b>RUSSIA</b>
MITSUBISHI ELECTRIC EUROPE B.V. Carretera de Rubi 76-80 <b>E-08190 Sant Cugat del Vallés (Barcelona)</b> Phone: 902 131121 // +34 935653131	<b>SPAIN</b>
MITSUBISHI ELECTRIC EUROPE B.V. Travellers Lane <b>UK-Hatfield, Herts. AL10 8XB</b> Phone: +44 (0)1707 / 27 61 00	<b>UK</b>

### EUROPEAN REPRESENTATIVES

GEVA Wiener Straße 89 <b>AT-2500 Baden</b> Phone: +43 (0)2252 / 85 55 20	<b>AUSTRIA</b>	Beijer Electronics A/S Lykkegårdsvej 17 <b>DK-4000 Roskilde</b> Phone: +45 (0)46 / 75 76 66	<b>DENMARK</b>	ALFATRADE Ltd. 99, Paola Hill <b>Malta- Paola PLA 1702</b> Phone: +356 (0)21 / 697 816	<b>MALTA</b>	Sirius Trading & Services Aleea Lacul Morii Nr. 3 <b>RO-060841 Bucuresti, Sector 6</b> Phone: +40 (0)21 / 430 40 06	<b>ROMANIA</b>	Omni Ray AG Im Schörl 5 <b>CH-8600 Dübendorf</b> Phone: +41 (0)44 / 802 28 80	<b>SWITZERLAND</b>	ILAN & GAVISH Ltd. 24 Shenkar St., Kiryat Arze <b>IL-49001 Petah-Tiqva</b> Phone: +972 (0)3 / 922 18 24	<b>ISRAEL</b>
TECHNIKON Oktyabrskaya 19, Off. 705 <b>BY-220030 Minsk</b> Phone: +375 (0)17 / 210 46 26	<b>BELARUS</b>	Beijer Electronics Eesti OÜ Pärnu mnt.1601 <b>EE-11317 Tallinn</b> Phone: +372 (0)6 / 51 81 40	<b>ESTONIA</b>	INTEHSIS srl bld. Traian 23/1 <b>MD-2060 Kishinev</b> Phone: +373 (0)22 / 66 4242	<b>MOLDOVA</b>	INEA RBT d.o.o. Izletnicka 10 <b>SER-113000 Smederevo</b> Phone: +381 (0)26 / 615 401	<b>SERBIA</b>	GTS Bayraktar Bulvari Nutuk Sok. No:5 <b>TR-34775 Yukarı İSTANBUL</b> Phone: +90 (0)216 526 39 90	<b>TURKEY</b>	GIRIT CELADON LTD 12 H'aomanut Street <b>IL-42505 Netanya</b> Phone: +972 (0)9 / 863 39 80	<b>ISRAEL</b>
ESCO D & A Culliganlaan 3 <b>BE-1831 Diegem</b> Phone: +32 (0)2 / 717 64 30	<b>BELGIUM</b>	Beijer Electronics OY Peltioie 37 <b>FIN-28400 Ulvila</b> Phone: +358 (0)207 / 463 540	<b>FINLAND</b>	HIFLEX AUTOM. B.V. Wolveverstraat 22 <b>NL-2984 CD Ridderkerk</b> Phone: +31 (0)180 - 46 60 04	<b>NETHERLANDS</b>	SIMAP s.r.o. Jána Derku 1671 <b>SK-911 01 Trenčín</b> Phone: +421 (0)32 743 04 72	<b>SLOVAKIA</b>	CSC Automation Ltd. 4-B, M. Raskovoyi St. <b>UA-02660 Kiev</b> Phone: +380 (0)44 / 494 33 55	<b>UKRAINE</b>	CEG INTERNATIONAL Cebaco Center/Block A Autostrade DORA <b>Lebanon - Beirut</b> Phone: +961 (0)1 / 240 430	<b>LEBANON</b>
Koning & Hartman b.v. Woluwelaan 31 <b>BE-1800 Vilvoorde</b> Phone: +32 (0)33 / 921 164	<b>BELGIUM</b>	UTECO 5, Mavrogenous Str. <b>HU-18542 Piraues</b> Phone: +36 (0)1 / 1206 900	<b>GREECE</b>	Koning & Hartman b.v. Haarlerbergweg 21-23 <b>NL-1101 CH Amsterdam</b> Phone: +31 (0)20 / 587 76 00	<b>NETHERLANDS</b>	PROCONT, spol. s r.o. Prešov Küpelhá 1/A <b>SK-080 01 Prešov</b> Phone: +421 (0)51 7580 611	<b>SLOVAKIA</b>	Systemgroup 2 M. Krivonos St. <b>UA-03680 Kiev</b> Phone: +380 (0)44 / 490 92 29	<b>UKRAINE</b>	CBI Ltd. Private Bag 2016 <b>ZA-1600 Isando</b> Phone: +27 (0)11 / 977 0770	<b>SOUTH AFRICA</b>
INEA RBT d.o.o. Aleja Lipa 56 <b>BA-71000 Sarajevo</b> Phone: +387 (0)33 / 921 164	<b>BOSNIA AND HERZEG.</b>	MELTRADE Kft. Fertő utca 14. <b>HU-1107 Budapest</b> Phone: +36 (0)1 / 431-9726	<b>HUNGARY</b>	Beijer Electronics AS Postboks 487 <b>NO-3002 Drammen</b> Phone: +47 (0)32 / 24 30 00	<b>NORWAY</b>	INEA RBT d.o.o. Stegne 11 <b>SI-1000 Ljubljana</b> Phone: +386 (0)1 / 513 8116	<b>SLOVENIA</b>	Beijer Electronics AB Box 426 <b>SE-20124 Malmö</b> Phone: +46 (0)40 / 35 86 00	<b>SWEDEN</b>		
AKHNATON 4, Andrei Ljapchev Blvd., PO Box 21 <b>BG-1756 Sofia</b> Phone: +359 (0)2 / 817 6000	<b>BULGARIA</b>	T00 Kazpromatomatika Ul. Zhambyla 28 <b>KAZ-100017 Karaganda</b> Phone: +7 7212 / 50 10 00	<b>KAZAKHSTAN</b>	Fonseca S.A. R. João Francisco do Casal 87/89 <b>PT - 3801-997 Aveiro, Esigueira</b> Phone: +351 (0)234 / 303 900	<b>PORTUGAL</b>						
INEA RBT d.o.o. Losinjka 4 a <b>HR-10000 Zagreb</b> Phone: +385 (0)1 / 36 940 -01/-02/-03	<b>CROATIA</b>	Beijer Electronics SIA Ritausmas iela 23 <b>LV-1058 Riga</b> Phone: +371 (0)784 / 2280	<b>LATVIA</b>								
AutoCont C.S. s.r.o. Technologická 374/6 <b>CZ-708 00 Ostrava-Pustkovec</b> Phone: +420 595 691 150	<b>CZECH REPUBLIC</b>	Beijer Electronics UAB Savanoriu Pr. 187 <b>LT-02300 Vilnius</b> Phone: +370 (0)5 / 232 3101	<b>LITHUANIA</b>								