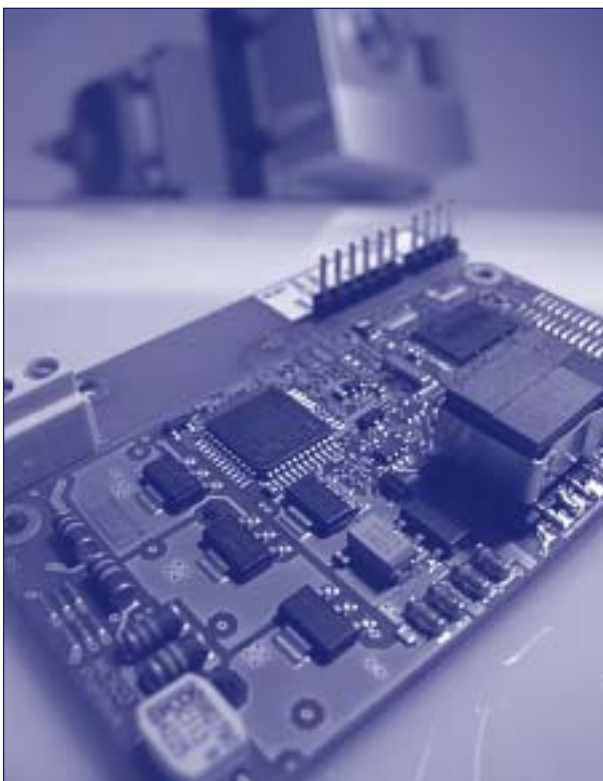


New CLPA member



MESCO Engineering GmbH is a new member of the CC-Link Partner Association - Europe.

MESCO realizes complete product developments for measurement and automatic control technology. In the scope of hardware engineering, tasks with Embedded controller, Embedded WEB servers, DSP technology, EMC and EX get solved.



On the software side, solutions for industrial communication (i.e. fieldbus interfaces), real time operation systems (RTOS), WEB technology and PC programs are implemented.

MESCO joins the CLPA to expand its range of development services. Especially the members of the Association should benefit from the long experience in electronic product development and fieldbus systems - beginning with technology consulting , development of firmware and electronic hardware to product certification and support.

Furthermore, MESCO has a strong focus on functional safety product development complying with IEC61508 SIL2/SIL3.

Next to the CLPA, MESCO is a member of several fieldbus organizations and technical committees, among them are the HART Organization, the Fieldbus Foundation, PROFIBUS and Modbus-IDA (Ethernet).

If you get interested, do not hesitate to establish contact. Your response is always welcome.



INSIDE

- SPS/IPC Nuremberg Review
- CC-Link in action
- New Products News

New Centre of Technical Excellence for Central Europe

The University of Warsaw is the location for the new CC-Link Networking Solutions Centre for Central Europe

CC-Link is every advancing, and earlier this year Malcolm Robins, the European General Manager for the CC-Link Partner Association, went to Poland to meet with members of the Warsaw University of Technology, Institute of Radioelectronics. The meeting was arranged to move CC-Link and CLPA-EU into the Central European arena by setting up the Institute as a Centre of Technical Excellence for CC-Link networking and be able to offer their services to potential new customers and vendors in Central Europe wishing use or supply products with CC-Link functionality included. It is anticipated that the University will move forward in the future to become the first CLPA approved Compliance Testing Centre for CC-Link products in Europe.

For more information please contact:
malcolm.robins@clpa-europe.com



Picture shows (left to right). Malcolm Robins General Manager CLPA Europe, Mungo Keulemans Group Operations Director MPL Technology (Mitsubishi Distributor for Poland), Professor Zaremba, Ph.D., D.Sc. Head of Nuclear and Medical Electronics Division, Marcin Ziembicki (CC-Link Project Leader), Piotr Michalski

Nuremberg, here we come again!



Following our very successful attendance at last year's SPS/IPC/DRIVES/ELECTRIC AUTOMATION Show at Nuremberg, we will be exhibiting again this year.

The Stand will be offering consultancy and advice on all aspects of CC-Link connectivity, software configuration tools, optimising network performance and general installation advice.

For the new members wishing to develop connectivity to CC-Link, free parts kits can be made available to assist with the development of compatible products.

So put it in your diary now and visit us on Stand No. 136 – Hall 6.

CC-Link Top tips

- **Take advantage of the built-in diagnostics**

CC-Link's rich diagnostic tools can be used to give in-depth information such as network performance, slave status and master errors. These diagnostics can be displayed directly on an HMI or integrated into SCADA to give direct feedback to operators, engineers and managers.

- **Warm standby with CC-Link**

CC-Link's standby master function allows users to make a cost effective warm standby system, where selected digital and

analogue values are duplicated in both the master and standby master to provide some backup (usually for critical values only). The only limitation is the amount of program memory in the master and standby master to carry out the I/O control.

- **Cables with power lines included**

Among the wide range of CC-Link approved cables, there are several types which incorporate not just the network cables but also the power cables. This allows power to be delivered direct to remote slaves without additional cables.

CC-Link goes green

CC-Link in action

An industrial automation systems integrator has installed a CC-Link fieldbus network throughout its purpose built new HQ to integrate a number of monitoring and control functions and create what is probably the UK's greenest commercial building by a country mile.

The most innovatively ecological building was designed, built and is occupied by GB Innomech, and it is proving to be a great shop window for the automation solutions company.

It is not only in the control system that GB Innomech's Innovation Centre is striving for environmental excellence. There are a host of other eco-friendly features, from extra insulation to an under floor heating system fed by a ground source heat pump.

High specification double glazing is also used throughout, except on the south facing front feature windows, which are triple glazed and include motorized blinds to control solar gain.

Low energy lighting, heat recovery systems, and local zoning all contribute towards the ideal. Hot tap water is solar heated and rainwater is collected to feed the toilets, which integrate with a Bio digester and reed bedded pond which is fast becoming a haven for local wildlife and migrating birds.

Standard environmental control system

The company prides itself on its willingness to cross-fertilise technologies and techniques between the different sectors of industry it serves, a procedure which has often resulted in significant innovation and success. So when building a new corporate headquarters it felt natural not to simply install a standard environmental control system and assume that this would give the best solution. Keith Reeds of the company takes up the story:

"In our every day work we are constantly assessing and specifying control equipment, so we had some idea about how much the environmental controls should cost and what sort of performance we could expect. When the proposed system fell short of our expectations we did some calculations and decided that industrial grade equipment offered a far better solution at much lower cost."

The system GB Innomech designed for itself was based on Mitsubishi Electric PLCs (Programmable Logic Controllers), HMIs (Human Machine Interfaces or Interactive Graphic Panels). All this was networked together via a CC-Link fieldbus network

One of the decisions was to integrate as many functions as possible into one central control system that could constantly optimise the entire building for energy performance. This necessitated a building-wide control system, and the team's natural bent towards innovation dictated that it be a fieldbus rather than the conventional mass of wiring.



Robert Colvin, the GB Innomech control systems engineer overseeing the project, explains:

"The fieldbus chosen was CC-Link, which ties in with the hardware and field devices. Central control is provided by a single Modular PLC. We have a total of 200 digital and 50 analogue I/O (signal routes) monitoring the building's environmental conditions. These control heat, light and ventilation to 15 offices and meeting rooms, 10 communal rooms and 300sqm of workshops."

Historical trends of controlled I/O

Touch-screen HMIs allow users to set preferences for each room and display the current status and historical trends of controlled I/O. The control system also anticipates building heat demand using real time clock triggers sent from the HMI to the PLC. The HMI is linked to GB Innomech's IT network for archiving of trend data and (future) alarm and status reports.

Overall, the company is benefitting from a better working environment and improved performance.

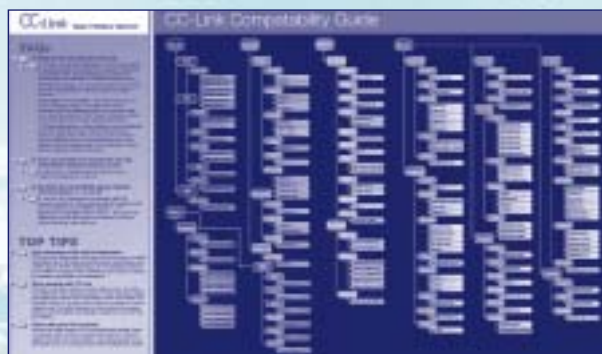


New compatibility chart

To simplify the process of locating a suitable certified CC-Link device covering a huge range, we have created a compatibility chart.

This includes products such as PLCs, displays, cables, gateways, slaves, sensors, drives, robots and lots more, as well as some FAQs and Top Tips.

For your free copy, email malcolm.robins@clpa-europe.com.



Multi-function weighing indicator

The new AD-4402 multi-function weighing indicator from A & D Company performs many operations from batch weighing to fieldbus networking applications.

It meets fieldbus requirements by employing, amongst others, CC-Link, via an optional interface. AD-4402 incorporates most of the functions, user-friendly operating procedures and software needed for a weighing system. Key features include a large and easy to see blue Vacuum Fluorescent Display (VFD) and a ten keypad and function buttons.



Members European Branch

European Vendors

Pneumatic Valve Manifolds SMC Pneumatics UK Ltd. Vincent Avenue, Crowhill Milton Keynes MK8 0AN Tel: +44 0800 1382930 Fax: +44 1908 555064	Temperature Controller TC Ltd. PO Box 130 Uxbridge Middlesex UB8 2YS Tel: +44 1895 252222 Fax: +44 1895 273640	Gateway Devices Pepperl + Fuchs GB 77 Ripponden Road Oldham, Lancs OL1 4EL Tel: +44 161 6336431 Fax: +44 161 6246537	Pneumatic Valve Manifolds Festo Ltd. Harvest Crescent, Ancells Business Park Hants GU13 8XP Tel: +44 1252 775000 Fax: +44 1252 775001	Local Cell Equipment Yamato Scale (UK) Ltd. 5 Maple Park, Lowfields Avenue, Leeds SL12 6HH Tel: +44 0113 2717999 Fax: +44 0113 2717012	Gateway Devices Bihl & Wiedemann GmbH Floßwörthstraße 41 D-68199 Mannheim Tel: +49 621 339960 Fax: 49 621 3392239
PCI Cards Woodhead Connectivity Ltd. Factory No.9 Rassau Ind. Est., Ebbw Vale, Gwent Wales NP3 5SD Tel: +44-1495-350436 Fax: +44-1495-350877	Master Computer and PCI Card NEC (UK) Ltd NEC House, 1 Victoria Road London W3 6BL Tel: +44-208-993-8111 Fax: +44-208-992-7161 www.nec-global.com/office/europe.html	Miscellaneous NAIS/Matsushita Electric Works (Europe) AG Rudolf-Diesel-Ring 2, 83607 Holzkirchen, Germany Tel: +49-8024-6480 Fax: +49-8024-648111 www.meweurope.com/mew	Data Acquisition & Computer Contec Microelectronics Europe B.V. Binnenweg 4, 2132 CT Hoofddorp, Netherlands Tel: +31-23-567-3030 Fax: +31-23-567-3035 www.contec-europe.com	HMI Pro-face HMI B.V. Amsteldijk 166 1079 LH, Amsterdam The Netherlands Tel: +31-20-6464-134 Fax: +31-20-6464-358 www.proface.com/company_e/offices.htm	Automation Products Mitsubishi Electric Europe B.V. Travellers Lane Hatfield AL10 8XB Tel: +44 1707 276100 fax: +44 1707 278695 www.mitsubishi.co.uk/automation

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