



Controls & Drives



Mitsubishi Software Solutions from BPX

Edition 5

New list prices from:

1st April, 2009



PLC



HMI



SCADA



MX Change



Inverter



Servo



**Software
Accessories**



**Programming
Hardware**



FX Training



Modems



Portable PCs

This document contains list prices, please contact your local branch for discounts

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Controls & Drives

distributing technology

Introducing BPX

BPX is a specialist distributor of industrial electrical control and automation products. Our head office is in Leicester and there are six BPX branches throughout the UK.

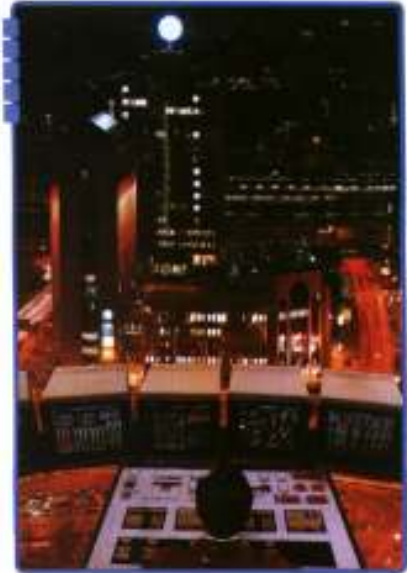
BPX Electro Mechanical Co. is the original member of the BPX Group which also includes the companies Controls and Drives, Ranger Computer Systems and Leicester Switch & Control. These businesses operate in the complementary areas of automation solutions, system integration and computer distribution.

3 reasons to choose BPX

1 Best Products
BPX carries an unrivalled list of authorised distributorships from the market leaders in control and automation.

2 Best Services
BPX customers consistently report service levels to be the best in the business.

3 Best Value
BPX is confident it offers the best value by price and service.



products



The BPX product range offers solutions for all factory automation and industrial control applications.

With distributorships from the market leaders in the controls business including Mitsubishi, Pilz, Telemecanique, Omron, Merlin Gerin, Weidmuller and 35 other major manufacturers BPX is uniquely equipped.

BPX are one of only three companies appointed by Mitsubishi as key partners and our branch locations are authorised Mitsubishi Centres of Technical Excellence. BPX enjoy a unique position in the Mitsubishi distribution structure and have privileged access to technical support, product information and to the Mitsubishi sales team.

Mitsubishi's F and FX Series of PLCs remain the world's best selling programmable controllers and the company's unparalleled experience in the field of industrial automation ensure Mitsubishi are renowned for innovation, quality and value.

The complete Mitsubishi industrial automation product range is supported by BPX. We stock, supply and offer technical advice on Mitsubishi PLCs, Operator Interfaces, Inverters, Servos, Software and Circuit Protection.

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Controls & Drives

Edition 5

What's new in this edition?

Updated software & new modems

- New – MX4 Energy
- New – FR Configurator for the latest frequency inverters
- New - modems

Please see the relevant sections further on in this brochure for more details of these exciting additions to the Mitsubishi range.

The "Solutions" brochures range:

- Mitsubishi Drives Solutions from BPX
- Mitsubishi HMI Solutions from BPX
- Mitsubishi Servo Solutions from BPX
- Mitsubishi Software Solutions from BPX
- Telemecanique Drives Solutions from BPX
- Electric Motor Solutions from BPX
- Cable Management Solutions from BPX

If you would like any of the above range of brochures, personalised with your company name & showing your discounted prices, please contact your local branch or e-mail marketing@bpx.co.uk

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Controls & Drives

PLC Software product information

GX Developer FX



The complete programming package for all FX PLC users, **GX Developer FX** is specially designed for your needs. The package has many features, functions & feel of the full GX Developer package. GX Developer FX supports:

- MELSEC Instruction List (IL)
- Ladder Diagram (LD)
- Stepladder (STL)

It is possible to switch between IL & LD at will, whilst you are working in a project.

GX Developer supports all MELSEC controllers from the FX Series to the Q. This software features a simple, intuitive interface & a short learning curve. GX Developer supports:

- MELSEC Instruction List (IL)
- MELSEC Ladder Diagram (LD)
- MELSEC Sequential Function Chart (SFC) languages

You can switch back & forth between IL & LD at will whilst you are working. You can programme your own function blocks & a wide range of utilities are available for configuring special function modules for the MELSEC Q. "Configure" is the operative word – you no longer need to programme special function modules, you just configure them.

The package includes powerful editors & diagnostics functions for configuring MELSEC networks & hardware & extensive testing & monitoring functions to help you get your applications up & running quickly & efficiently.

You can also test all of your programme's key functions before they are implemented with the Ladder Logical Test offline simulation mode. LLT also enables you to simulate all your devices & application responses for realistic testing.

You can import programmes written with our older DOS software packages (like MEDOC) into GX Developer. The package also supports the exchange of data within Microsoft applications.

GX Developer



GX IEC Developer is more than a powerful 2nd generation IEC 61131.3 programming & documentation package. It supports your entire MELSEC PLC implementation from the initial project planning to everyday operation, with a wealth of advanced functions that will help you to cut costs & increase your productivity.

The sophisticated programme architecture comes with a range of new, user-friendly functions, including structured programming & support for function libraries.

Top-down application architecture: During the planning phase, the structuring tools help you to organise your project efficiently. Use the intuitive graphical tools to identify & display tasks, functional units, dependencies, procedures & application structures. In addition to making your work easier, this also significantly reduces error frequency in later project stages.

Flexible Implementation: In the engineering phase you then choose the programming language that best matches the structure of your project.

- ST (Structured Text) FBD (Function Block Diagram)
- SFC (Sequential Function Chart) IL (Instruction List)
- LD (Ladder Diagram)

Programme frequently-used functions in function blocks & organise them in libraries. This gives you the confidence that comes with knowing you are using tested, reliable code. Password support helps you to protect your valuable expertise.

Simple Configuration of Control Components: Configuration of controller components is performed quickly & efficiently in tables with interactive dialogs & graphical support. This powerful support is available for standard & special function modules as well as for the controller CPUs. You no longer have to create application programmes to configure your system.

GX IEC Developer



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Controls & Drives

PLC Software

GX Configurator DP is a setup & configuration software for the Open Profibus DP network. It can be used to configure all Profibus/DP master/slave modules from:

- Mitsubishi MELSEC PLC, Inverter & HMI ranges
- Other manufacturers using their own GSD files

Because GX Configurator DP is a graphical configuration software, using it is a simple case of dragging pictures of the devices onto a representation of the Profibus/DP backbone. Device station numbers, extended parameters & PLC addresses are then allocated to the remote Profibus/DP slave devices via the software & associated GSD files.

GX Configurator DP also makes programming easier by automatically generating programme modules that can be integrated directly into the GX IEC Developer package. Configurations can be transferred to the Profibus/DP master module via the devices' own programming port or that of the CPU, or via networks like Ethernet or MELSECNET.

GX Configurator DP



This document contains list prices, please contact your local branch for discounts

GX Software

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
135012	GX-Developer-Pack	Windows PLC Programming Software inc. cable SC09	£747.00	Call	Call
135013	GX-Developer-CD	Windows PLC Programming Software not including cable	£640.00	Call	Call
135014	GX-Developer-UG	Windows PLC Programming Software not including cable or PAK code (upgrade only)	£160.00	Call	Call
133619	GX-Developer-FX-Pack	Windows PLC Programming Software for FX series PLC inc. cable SC09	£319.00	Call	Call
133618	GX-Developer-FX-CD	Windows PLC Programming Software for FX series PLC not including cable	£213.00	Call	Call
144761	GX-Developer-FX-UG	Windows PLC Programming Software for FX series PLC not including cable (upgrade only)	£160.00	Call	Call
140051	GX Configurator DP	Windows Based Profibus Configuration Software inc. cable	£533.00	Call	Call
140072	GX Configurator UT	Windows Based special module Configuration Software Q series only	£213.00	Call	Call

GX IEC Developer IEC 61131-3 Compliant (multiple licences are available for this product, please contact your local branch)

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
140047	GX-IEC-Developer-Pack	Windows Programming Software, IEC 61131-3, for FX/AnS/A/Q inc. manuals, interface cable	£853.00	Call	Call
140049	GX-IEC-Developer-CD	Windows Programming Software, IEC 61131-3, for FX/AnS/A/Q inc. manuals, not interface cable	£747.00	Call	Call
140050	GX-IEC-Developer-UG	Windows Programming Software upgrade, IEC 61131-3, for FX/AnS/A/Q inc. manuals, not interface cable (upgrade only)	£319.00	Call	Call

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E Designer



The **E Designer** programming software makes it very easy to create & edit projects for the E Series range of HMIs. The software's Block Manager utility provides a complete graphical overview of the project. The package comes complete with a library of ready-to-use symbols, objects & drivers for all Mitsubishi MELSEC PLCs & many third party PLCs as well. The new dual driver option of E Designer allows the E Series HMI to be further "expanded" to talk to TWO different devices simultaneously, i.e. 2 separate PLCs, a PLC & Inverter or Servo system.

There are many more new features which E Designer provides, such as being able to update drivers online via the internet without having to exit E Designer. Multilingual projects can be created with up to 10 user-selectable languages. When downloaded into an E Series HMI, an operator can then choose their "display" language of preference from those defined by the project. New Vector Graphics allow screen designers more control over object attributes such as size, colour, etc. improving screen presentation & facilitating the clear display of information. A special set of utilities allows data like HTML Internet pages or recipe alarm files to be exchanged over direct serial or Ethernet (FTP) links between an E Series HMI & the PC running E Designer.

Key Features & Benefits:

- Multi-language hardware & software support
- New vector graphics
- Dual driver support
- Compatible with MXChange
- Supports all E Series HMIs
- Simultaneous processing of different projects



Controls & Drives

HMI Software

GT Works 2 (User Friendly GOT Programming)



GT Works is used to load the operating system, PLC drivers & graphical applications into the F/A900GOT control units. The software package also includes functions for editing the GOT control screen, error checking & programme documentation.

Highlights:

- Supports operation in all international languages (depends on Windows character set)
- Offline error checking
- Large graphics library
- Soft PLC & GOT simulation tools

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HMI Programming

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
136498	E-Designer CD	Windows PC programming software for E Series, CD only but includes complete set of electronic manuals.	£81.00	Call	Call
140062	E-Designer Kit	Windows PC Programming Software for E Series, inc. MAC-PROG/9-CAB & complete set of electronic manuals for MAC/E Series HMIs.	£106.00	Call	Call
200451	E-Designer E1000 Kit	Windows PC programming software for E1000 series, inc. HMI programming cable & complete set of electronic manuals.	£102.00	Call	Call
139802	SW5D5C-GTWORKS-E	Windows Based Programming Software for A900GOT/F900GOT Series of HMIs. Includes simulator function	£261.00	Call	Call
124972	FX-232CAB-1	Programming cable A900GOT/F900GOT	£72.00	Call	Call

"Bundled" Software

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
146667	MSSP-GXFX-SW	E Designer & GX Developer FX (software only)	£438.00	Call	Call
146657	MSSP-GX-SW	E Designer, GX Developer & Simulator, MXChange*, GX Configurator DP & GX Configurator UT (software only)	£1,685.00	Call	Call
146662	MSSP-GXIEC-SW	E Designer, GX IEC Developer & Simulator, MXChange*, GX Configurator DP & GX Configurator UT (software only)	£1,765.00	Call	Call

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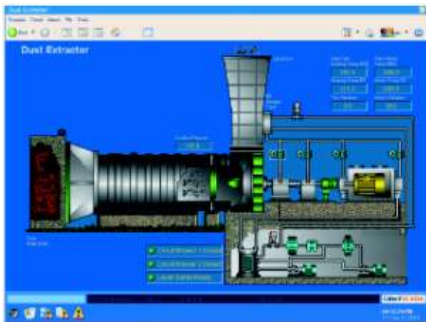
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MX4 SCADA visualisation & control software the new generation of the popular Mitsubishi SCADA system.

MX4 SCADA

Whether you need an easy-to-use operator interface with networked reporting capability, or an entire client/server HMI/SCADA system spanning multiple plants on different continents, MX4 SCADA is the system of choice for successful global manufacturers.



- Simple to configure
- Graphic displays
- Drawing tools
- Security
- Alarms
- Trends
- Reports
- Applications language (Cicode/CitectVBA)

In today's highly competitive environment, business managers must make mission critical decisions on a daily basis. Accessing timely, relevant & accurate information in an efficient & immediate manner has never been easy to achieve...until now.

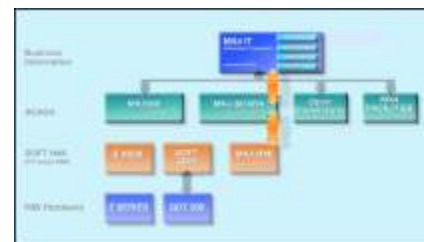
Welcome to the world of **MX4 Business Solutions**, transforming plant data into business advantage.

Citect inside – MX4 Business was developed in partnership with the award winning software company Citect. It offers the reassurance & reliability that comes with providing solutions for many large, complex, industrial applications throughout the world.

MX4 Business is fully Qnected – Integrating plant & business information has never been easier. MX4 Business lets you analyse your business data without disrupting plant operations. Access to information ranging from equipment statistics to plant performance criteria, production results & stock inventories can now be analysed quickly & effectively throughout your enterprise.

Tailored solutions – The MX4 Business Server architecture is based on open standards to make your data easily accessible throughout your enterprise. It has been designed to provide maximum flexibility & scalability while maintaining maximum performance.

MX4 Business





Controls & Drives

MX4 -----

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MX4 SCADA

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
152266	MX4-SCADA-75	75 Point Full Server Licence	£1,038.00	Call	Call
152268	MX4-SCADA-75 DC	75 Point Display Client Licence	£741.00	Call	Call
152287	MX4-SCADA-150	150 Point Full Server Licence	£1,636.00	Call	Call
152288	MX4-SCADA-150 DC	150 Point Display Client Licence	£1,235.00	Call	Call
152877	MX4-SCADA-150 IDC	150 Point Internet Display Client Licence	£1,235.00	Call	Call
152289	MX4-SCADA-150 IMC	150 Point Internet Manager Client Licence	£741.00	Call	Call
152290	MX4-SCADA-150 MC	150 Point Manager Client Licence	£741.00	Call	Call
152293	MX4-SCADA-500	500 Point Full Server Licence	£2,932.00	Call	Call
152294	MX4-SCADA-500 DC	500 Point Display Client Licence	£1,729.00	Call	Call
152295	MX4-SCADA-500 IDC	500 Point Internet Display Client Licence	£1,729.00	Call	Call
152296	MX4-SCADA-500 IMC	500 Point Internet Manager Client Licence	£741.00	Call	Call
152297	MX4-SCADA-500 MC	500 Point Manager Client Licence	£741.00	Call	Call
152300	MX4-SCADA-1500	1,500 Point Full Server Licence	£3,969.00	Call	Call
152301	MX4-SCADA-1500 DC	1,500 Point Display Client Licence	£1,729.00	Call	Call
152302	MX4-SCADA-1500 IDC	1,500 Point Internet Display Client Licence	£1,729.00	Call	Call
152303	MX4-SCADA-1500 IMC	1,500 Point Internet Manager Client Licence	£741.00	Call	Call
152304	MX4-SCADA-1500 MC	1,500 Point Manager Client Licence	£741.00	Call	Call
152316	MX4-SCADA-5000	5,000 Point Full Server Licence	£5,402.00	Call	Call
152317	MX4-SCADA-5000 DC	5,000 Point Display Client Licence	£1,729.00	Call	Call
152318	MX4-SCADA-5000 IDC	5,000 Point Internet Display Client Licence	£1,729.00	Call	Call
152319	MX4-SCADA-5000 IMC	5,000 Point Internet Manager Client Licence	£741.00	Call	Call
152320	MX4-SCADA-5000 MC	5,000 Point Manager Client Licence	£741.00	Call	Call
152323	MX4-SCADA-15000	15,000 Point Full Server Licence	£7,823.00	Call	Call
152324	MX4-SCADA-15000 DC	15,000 Point Display Client Licence	£2,372.00	Call	Call
152399	MX4-SCADA-15000 IDC	15,000 Point Internet Display Client Licence	£2,372.00	Call	Call
152400	MX4-SCADA-15000 IMC	15,000 Point Internet Manager Client Licence	£1,878.00	Call	Call
152401	MX4-SCADA-15000 MC	15,000 Point Manager Client Licence	£1,878.00	Call	Call
152438	MX4-SCADA-UTD	Unlimited Point Full Server Licence	£11,035.00	Call	Call
152439	MX4-SCADA-UTD DC	Unlimited Point Display Client Licence	£2,372.00	Call	Call
152440	MX4-SCADA-UTD IDC	Unlimited Point Internet Display Client Licence	£2,372.00	Call	Call
152441	MX4-SCADA-UTD IMC	Unlimited Point Internet Manager Client Licence	£1,878.00	Call	Call
152442	MX4-SCADA-UTD MC	Unlimited Point Manager Client Licence	£1,878.00	Call	Call

MX4 Business

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
207946	MX4-B-5A	MX4-Business Server Software 'Max 5 Assets'	£4,966.00	Call	Call
207947	MX4-B-10A	MX4-Business Server Software 'Max 10 Assets'	£7,102.00	Call	Call
207948	MX4-B-20A	MX4-Business Server Software 'Max 20 Assets'	£10,146.00	Call	Call
207949	MX4-B-50A	MX4-Business Server Software 'Max 50 Assets'	£14,525.00	Call	Call
207950	MX4-B-100A	MX4-Business Server Software 'Max 100 Assets'	£20,826.00	Call	Call
207951	MX4-B-500A	MX4-Business Server Software 'Max 500 Assets'	£29,690.00	Call	Call
207952	MX4-B-1000A	MX4-Business Server Software 'Max 1000 Assets'	£43,741.00	Call	Call
207953	MX4-B-ULA	MX4-Business Server Software 'Unlimited Assets'	£60,770.00	Call	Call
207974	MX4-B-DL	MX4-Business DL Software module	£908.00	Call	Call
207975	MX4-B-ANN	MX4-Business Annunciator add-in module	£2,083.00	Call	Call
207976	MX4-B-TRT	MX4-Business Trending add-in module	£1,244.00	Call	Call
207977	MX4-B-QC	MX4-Business QC add-in module	£3,140.00	Call	Call
207978	MX4-B-EXC	MX4-Business Excel data browser add-in module	£4,406.00	Call	Call

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Controls & Drives

MX4 -----

product information

MX4 HMI



For OEMs, the choice of industrial automation software is based on a number of factors. Firstly, you need a name you can rely on. Secondly, the solution must be easy to use & include everything needed to meet your requirements. Finally, it must be cost-effective & flexible to configure, distribute & support. **MX4 HMI** has been designed specifically to meet these needs.

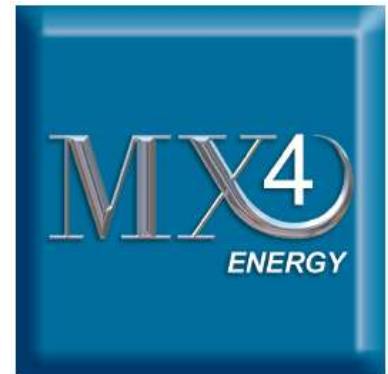
- Simple to configure
- Graphic displays
- Drawing tools
- Protocol compatibility
- Support
- Access to data
- Alarms & Security
- Trends
- Reports
- Applications language (Cicode/CitectVBA)

MX4 Energy is a comprehensive software solution for all your energy monitoring & targeting needs in one system.

MX4 Energy monitors consumption of energy & provides you with the information to identify & address energy issues. Once assets have reached their optimum performance, **MX4 Energy** monitors ongoing activity & enables prevention of energy efficiency decay.

- aM&T Solution
- Energy accountability
- Data collection
- Cost & exception reporting
- Integration & connectivity
- Visibility of energy usage
- Streamline working to reduce energy
- Target energy saving in the right direction

MX4 Energy



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152447	MX4-HMI-100	100 point, 1 driver included	£650.00	Call	Call
152449	MX4-HMI-100-MXCOMP	100 point, 1 driver MxComponent included	£750.00	Call	Call
152451	MX4-HMI-300	300 point, 1 driver included	£1,200.00	Call	Call
152453	MX4-HMI-300-MXCOMP	300 point, 1 driver MxComponent included	£1,300.00	Call	Call
152455	MX4-HMI-600	600 point, 1 driver included	£1,550.00	Call	Call
152457	MX4-HMI-600-MXCOMP	600 point, 1 driver MxComponent included	£1,650.00	Call	Call

MX4 Energy

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
166288	MX4-Energy-25	MX4 Energy 25 Data Channels	£2,771.00	Call	Call
166289	MX4-Energy-50	MX4 Energy 50 Data Channels	£3,611.00	Call	Call
166290	MX4-Energy-100	MX4 Energy 100 Data Channels	£4,993.00	Call	Call
166291	MX4-Energy-200	MX4 Energy 200 Data Channels	£6,104.00	Call	Call
166292	MX4-Energy-300	MX4 Energy 300 Data Channels	£7,424.00	Call	Call
166293	MX4-Energy-500	MX4 Energy 500 Data Channels	£9,710.00	Call	Call
166294	MX4-Energy-500+	MX4 Energy 500+ Data Channels (price per channel)	£6.00	Call	Call
211620	iQube350CC PM	Multifunction Meter 350 CCLink Panel Mount	£171.00	Call	Call
211621	iQube400CC PM	Multifunction Meter 400 CCLink Panel Mount	£192.00	Call	Call
209832	iQube350M PM	Multifunction Meter 350 Modbus Panel Mount	£134.00	Call	Call
209833	iQube350M DR	Multifunction Meter 350 Modbus Din Rail Mount	£155.00	Call	Call

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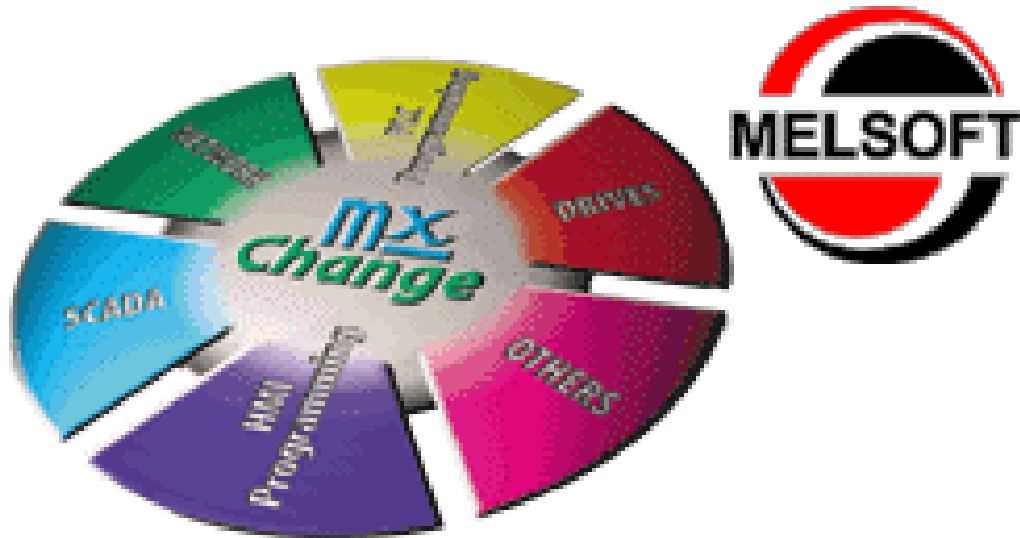
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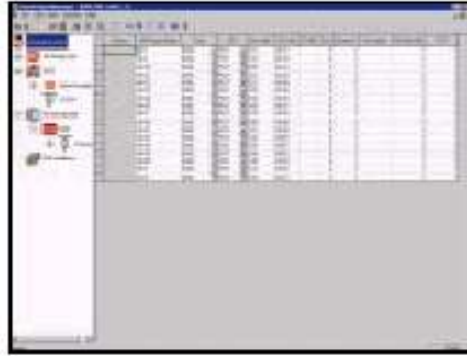
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The concept of MXChange is based around a common database of tags that all MXChange compliant software packages can access.



This powerful software consists of two programme modules. The foundation is the MXChange server, which is the core database containing all the variable declarations commonly known as Tags. It can be used as a local server & as a network server, thus allowing multiple users to connect to the project database.

The second MXChange module is the Super Project Manager with integrated Tag editor. The Super Project Manager functions as a project navigator, displaying all the Tags used both in the project as a whole & the component programmes associated with it. It brings the benefit of eliminating repetition of Tag entry in multiple packages, thus reducing typing errors & saving time. Super Project Manager allows a team of software engineers to work together each looking after their own section of the project but synchronising the database automatically.

Current MELSOFT MXChange compliant packages are:

- GX Configurator
- GX Developer
- GX-IEC-Developer
- MX4
- E Designer

This document contains list prices, please contact your local branch for discounts

Configuration & Database Management Tools

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
140074	MXC-SA-2000	MX Change 2000 Tag Stand Alone	£266.00	Call	Call
140075	MXC-NW-Unlimited	MX Change Unlimited Networked	£383.00	Call	Call

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FR Configurator

product information



Programming Software

- *Windows XP & above compatible*
- *Copies/updates parameters*
- *Interactive help menu*
- *Up to 32 drives controlled at once*
- *Auto-tune feature for Vector control*
- *Intelligent recognition of drive type & options fitted*
- Full commissioning diagnostics including oscilloscope function
- Automatic diagnostics feature

The MELSoft FR-Configurator inverter programming software package is designed to speed the set-up, commissioning and operation of all Mitsubishi 500/700 series drives. The package comprises FR-Configurator, MX500 (for 500 series drives) and a specially designed communications cable that interfaces between a series 500/700 inverter and a standard laptop or any other PC running Windows XP & above. The cable includes a protocol converter and needs no external power supply, so it is ideal for maintenance and diagnostic tasks on site. Programming a drive is as simple as 'connect each end and go'.



Controls & Drives

FR Configurator



The new FR-Configurator programming package is the latest addition to the Mitsubishi MELSoft software suite. FR-Configurator is an inverter/drive commissioning and diagnostic tool which consists of:

- SC-FRPC communications cable
- FR-Configurator programming software
- MX500 programming software for the 500 series drives

The software can be used with laptops and PCs using Windows XP & above. It can only be used with '500/700 series' drives.

It is possible to control up to 32 drives from a single connection point.

If you are using a single drive, all the software functions can be made without any parameter changes being made.

It is the ideal companion to the 500/700 series range and will be invaluable to anyone involved in set-up, operation or commissioning.

SC-FRPC communications cable.

This cable is specifically designed to interface between a standard laptop or other type of PC and any '500/700 series' drive. It includes a protocol converter and no external power supply is needed.

FR-Configurator & MX500 programming software

The software allows the following operations to be carried out.

System Setting – Up to 32 inverters can be commissioned from a single PC using inbuilt RS485 communications.

Parameter Editing – Suites of Parameters can be simply loaded into inverters or saved onto disk for future use.

Default and actual drive parameters can be read and altered as required.

Monitoring – All critical data can be monitored online. Selected variables can be displayed continuously. These can be all from the same drive or from several linked inverters.

Oscilloscope Function – Allows selected variables to be plotted and reviewed against a time basis. This feature also allows site data to be stored on disk for future analysis or for printing into reports, etc.

Diagnostics Facility – Allows the software to suggest possible reasons why drive performance is not as expected. Full details of the last 8 error messages are also available, with plain English explanations.

Configuration and Test Running – The drive can be operated in test mode, to check direction or rotation and correct operation. Additionally, the inverter can be configured for sensorless vector operation entirely via the software. Following prompts, the software also allows drive set-up to be accomplished from data such as load type, thus avoiding the need for any knowledge of the parameter set.

File Management – All information obtained from the drive can be simply saved and recalled for future reference.

Help Function – A very detailed help function acts as a 'virtual manual' and allows fast diagnosis via word searches as with most standard Windows packages. Data is available both for the inverters and to provide help with the software.

A full instruction manual for the software can be found on the CD-ROM (PDF format).

This document contains list prices, please contact your local branch for discounts

FR Configurator Inverter Programming Software

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
215701	MX500 & FR-Configurator V30010-E s/w	Setup & monitoring software for all 500 & 700 series inverters	£52.00	Call	Call
88426	SC-FRPC	Inverter RS485 programming software cable (PU Port)	£128.00	Call	Call

Prices shown exclude VAT & are subject to BPX standard terms & conditions of sale

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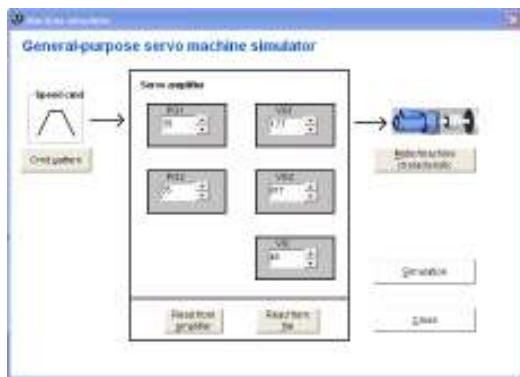
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Servo

product information



Servocom Setup Software

- *Store & load parameter files to servos*
- *Perform fine-tuning with oscilloscope style trending*
- *Make safe tests without motor*
- *Make S100 motion programmes*
- *Perform JOG & diagnostics*

This intuitive software offers an alternative to the built-in pushbuttons of the servo amplifiers for a fast & easy set-up of the parameters for all the various servos in the Mitsubishi range.



GX Configurator AP & QP

- *Fast set-up & recall of 600 motion profiles & parameters for up to 3 axes*
- *Extensive handy path trace & oscilloscope style trending*
- *Safe offline path trace check without the need of a servo*
- *Perform JOG, Teach & diagnostics functions*

Not always required but certainly recommended because this software most certainly reduces a simple programme from 200 steps to just 30!

This document contains list prices, please contact your local branch for discounts

D75 Series Programming Software

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
147090	GX Configurator AP	Windows based programming software for the AD75P / AD75M / A1SD75P & A1SD75M positioning modules	£315.00	Call	Call
147091	GX Configurator QP	Windows based programming software for the QD75P / QD75D & QD75M positioning modules	£315.00	Call	Call

FX2N-10GM / FX2N-20GM Controller Programming Software

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
128726	FX-PCS-VPS/WIN-E	Programming Software (VPS) for FX2N-10GM/FX2N-20GM controllers	£101.00	Call	Call
131413	FX-VPS+CAB	Programming Software (VPS) for FX2N-10GM/FX2N-20GM controllers with SC-09 cable	£208.00	Call	Call

Servo Set-Up Software

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
113863	SERVOCOM+CAB	Servo Set-up Software with communications connection cable	£208.00	Call	Call
149284	SERVOCOM Software CD	Servo Set-up Software only	£106.00	Call	Call

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MX Communication Components

For users who want to build their own software front ends or decide they do not need an off the shelf combined graphics/data gathering solution, MX Communication Components are a set of powerful, user-friendly tools that make integration between PC & PLC easy.

There is a communication tool for MS Visual Basic, MS C++ & MS Excel as well as Active X & OPC. Each utility is very easy to configure & test the connection to your Mitsubishi PLC. They support serial CPU port connections, serial computer links (RS232C, RS422), Ethernet, CC-Link & all MELSEC networks. After configuring the communication paths, you can access all controller devices (read/write) with your chosen Microsoft interface.



MX Component

The software provides a set of Active X components which make it much easier to programme MS Visual Basic & MS C++ applications for your controller.

They give direct access to the various available communication paths from your applications, including the paths defined with the Communication Set-up Utility.

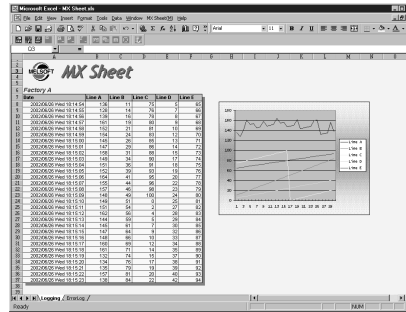
All the communication work is handled by MX Component, leaving you free to concentrate on your application.



Controls & Drives

Software Accessories

MX Sheet



Excel Communication Support Tool, MX Sheet – easy collecting & writing of field data with Excel from your desk!

MX Sheet is a communication support software package. It monitors the PLC CPU, performs logging, collects alarm information, changes setting values & works through simple settings using Microsoft Excel. There is no need for programming. (MX Component V3.01B or later is required to use MX Sheet)

- Easy Settings without Programming
- Monitor – monitors the field status in real time
- Logging – most suitable for collecting quality data & managing history
- Write – automatically writes recipe data

This tool gives you fast, secure access to all Mitsubishi controllers with any OPC-compatible software package.

MX OPC Server

This document contains list prices, please contact your local branch for discounts

Software Accessories

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
134127	MX-OPC	MX OPC (V5) Server for all PLCs	£490.00	Call	Call
134927	SW3D5C-ACT-E	MX Component, ActiveX Communication Support tools Single Licence	£335.00	Call	Call
145263	SW3D5C-ACT-E5	MX Component, ActiveX Communication Support tools 5 Licence	£672.00	Call	Call
156406	SW3D5C-ACT-E10	MX Component, ActiveX Communication Support tools 10 Licence	£1,121.00	Call	Call
156407	SW3D5C-ACT-E20	MX Component, ActiveX Communication Support tools 20 Licence	£1,905.00	Call	Call
147004	MXSheet	Microsoft Excel 2000 Add-in, 1 Licence	£649.00	Call	Call
158507	MXSheetE5	Microsoft Excel 2000 Add-in, 5 Licence	£1,322.00	Call	Call
160091	MXSheetE10	Microsoft Excel 2000 Add-in, 10 Licence	£2,242.00	Call	Call
160092	MXSheetE20	Microsoft Excel 2000 Add-in, 20 Licence	£3,700.00	Call	Call

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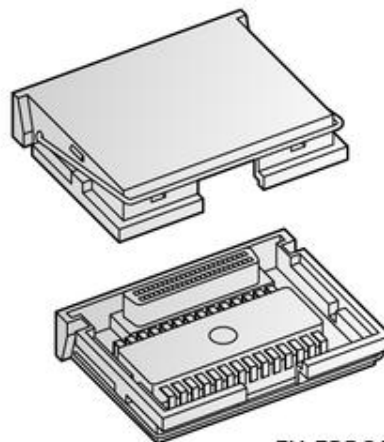
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Programming Equipment

product information



FX-EPROM-8

This document contains list prices, please contact your local branch for discounts

Programming Hardware for FX Series PLCs

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
23823	FX-RAM-8	8k RAM (16k RAM w hen used on FX2N MPUs)	£64.00	Call	Call
23824	FX-EPROM-8	8k EPROM (16k EPROM w hen used on FX2N MPUs)	£51.00	Call	Call
65600	FX-EEPROM-16	16k step memory for FX2N base units	£170.00	Call	Call
141528	FX2N-ROM-E1	16k step memory EEPROM w ith external ROM instructions for V3.0 & above FX2N base	£197.00	Call	Call
25949	FX-422CAB	RS422 Connection Cable for FX	£56.00	Call	Call
76094	FX-422CAB0	RS422 Connection Cable for FX0 / 0S / 0N / 2N	£47.00	Call	Call
76163	F2-232CAB-1	RS232 Comms Cable for FX	£46.00	Call	Call

Programming Hardware for Q-Series

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
128424	QC30R2	RS232 Programming Cable	£45.00	Call	Call

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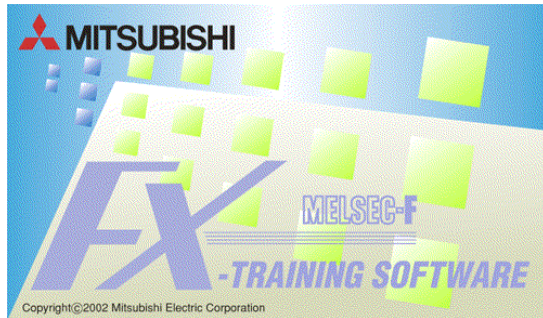
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FX-TRN-BEG-E

The FX Training Software package is designed and produced by Mitsubishi, for new users of PIC equipment.

In both education and industry, FX Training Software negates the need to train employees on expensive plant and equipment, as the software simulates real situations & conditions. FX Training Software complements & enhances the traditional hands-on training offered by colleges.

FX Training Software has a sophisticated simulation engine. When used in conjunction with Mitsubishi's Gx Developer PLC programming software (which is required as a separate product) it allows the student to test the responses of different types of process control system.

These are very focussed training modules that require about 30 – 60 minutes to complete,

All exercises within the courses are finalised with a theoretical or practical test and assessment, giving students and their instructors the ability to monitor progress. Modules can be saved at any stage so the student can return to complete them at any time.

FX Training Software courses can be undertaken anywhere a computer is available, such as classrooms, at home, in structured workplace training environments or in free time and down time.

For individuals who may be undertaking a course whilst employed, this is the perfect solution.

It is not uncommon in situations such as this for the demands of the job to interfere with the ability to attend classes. With FX Training Software, the individual can catch up by using the program at home or during work breaks.



This document contains list prices, please contact your local branch for discounts

FX Training Software

SAP No.	Catalogue No.	Description	Price	Discount	Nett Price
147277	FX-TRN-BEG-E	Virtual FX PLC training software	£102.00	Call	Call
159007	FX1S Starter Kit	FX1S-10-MR-ES, GX Developer FX Software, Cable, Switch strip, PLC training book & applications guide	£307.00	Call	Call
159008	FX1N Starter Kit	FX1N-14-MR-ES, GX Developer FX Software, Cable, Switch strip, PLC training book & applications guide	£426.00	Call	Call

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Modems

product information

Modem Communications – “made easy”

Using modems to dial into or from control systems has become increasingly popular. With the added benefits of GSM technology, you no longer even require a wired telephone connection. Modems, however, are a typical example of how technology can surprisingly complicate the process of transferring information between devices. Regrettably you cannot simply take the Modem from it's packaging & expect it to operate, it needs to be configured & used with the correct cable. Without all these vital elements the chances of success are slim.

Our engineers, in conjunction with those of Westermo & Mitsubishi, have developed & tested a range of solutions using the Industrial Modems from Westermo to communicate with Mitsubishi PLCs. These solutions are available as plug & play “Starter Kits” to make it easy for our customers to integrate them into their own applications, for both PSTN & GSM networks.



TDW-33DC/V.90

GDW-11DC/V.90



Each Starter Kit contains:

- Industrial PSTN or GDW-11 GSM DIN rail mounted Modem
- Cable between the Modem & PC for initial configuration
- Application cable, each kit providing the appropriate cable for the hardware configuration
- Modem configuration software, providing point & click initialisation of Modem, eliminating the need to programme AT commands
- 1 year support & upgrade pack – due to the complex nature of Modems, we have incorporated a support programme which includes F.O.C. upgrades of the set-up software, as additional devices are added

We supply purpose designed software for easy Modem configuration, please ask your local branch for details

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Controls & Drives

Modems

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TDW-33 Starter Kits

Part No.	Kit Contents	Description	Price	Discount	Nett Price
TD33STARTERKIT1	TDW-33DC/V.90	Dial up, RS232, 56.6Kbits DIN-Modem 24VDC	£349.00	Call	Call
	MODEM-PC9-CAB	Cable between Modem & PC			
	NLWE-H-AQ1	Connecting cable between Modem & controller			
	AEWESW	Modem configuration software			
	AEWESW-SU-PACK	1year support & upgrade pack			
TD33STARTERKIT2	TDW-33DC/V.90	Dial up, RS232, 56.6Kbits DIN-Modem 24VDC	£349.00	Call	Call
	MODEM-PC9-CAB	Cable between Modem & PC			
	NLWE-H-FBD2	Connecting cable between Modem & controller			
	AEWESW	Modem configuration software			
	AEWESW-SU-PACK	1year support & upgrade pack			
TD33STARTERKIT3	TDW-33DC/V.90	Dial up, RS232, 56.6Kbits DIN-Modem 24VDC	£349.00	Call	Call
	MODEM-PC9-CAB	Cable between Modem & PC			
	NLWE-C24-AQ3	Connecting cable between Modem & controller			
	AEWESW	Modem configuration software			
	AEWESW-SU-PACK	1year support & upgrade pack			
TD33STARTERKIT4	TDW-33DC/V.90	Dial up, RS232, 56.6Kbits DIN-Modem 24VDC	£349.00	Call	Call
	MODEM-PC9-CAB	Cable between Modem & PC			
	NLWE-CPUQ4	Connecting cable between Modem & controller			
	AEWESW	Modem configuration software			
	AEWESW-SU-PACK	1year support & upgrade pack			
TD33STARTERKIT5	TDW-33DC/V.90	Dial up, RS232, 56.6Kbits DIN-Modem 24VDC	£349.00	Call	Call
	MODEM-PC9-CAB	Cable between Modem & PC			
	NLWE-F-BD5	Connecting cable between Modem & controller			
	AEWESW	Modem configuration software			
	AEWESW-SU-PACK	1year support & upgrade pack			

GDW-11 Starter Kits

Part No.	Kit Contents	Description	Price	Discount	Nett Price
GD01STARTERKIT1	GDW-11DC/V.90	GSM Network Modem complete with antenna (requires sim card & network registration)	£424.00	Call	Call
	MODEM-PC9-CAB	Cable between Modem & PC			
	NLWE-H-AQ1	Connecting cable between Modem & controller			
	AEWESW	Modem configuration software			
	AEWESW-SU-PACK	1year support & upgrade pack			
GD01STARTERKIT2	GDW-11DC/V.90	GSM Network Modem complete with antenna (requires sim card & network registration)	£424.00	Call	Call
	MODEM-PC9-CAB	Cable between Modem & PC			
	NLWE-H-FBD2	Connecting cable between Modem & controller			
	AEWESW	Modem configuration software			
	AEWESW-SU-PACK	1year support & upgrade pack			
GD01STARTERKIT3	GDW-11DC/V.90	GSM Network Modem complete with antenna (requires sim card & network registration)	£424.00	Call	Call
	MODEM-PC9-CAB	Cable between Modem & PC			
	NLWE-C24-AQ3	Connecting cable between Modem & controller			
	AEWESW	Modem configuration software			
	AEWESW-SU-PACK	1year support & upgrade pack			
GD01STARTERKIT4	GDW-11DC/V.90	GSM Network Modem complete with antenna (requires sim card & network registration)	£424.00	Call	Call
	MODEM-PC9-CAB	Cable between Modem & PC			
	NLWE-CPUQ4	Connecting cable between Modem & controller			
	AEWESW	Modem configuration software			
	AEWESW-SU-PACK	1year support & upgrade pack			
GD01STARTERKIT5	GDW-11DC/V.90	GSM Network Modem complete with antenna (requires sim card & network registration)	£424.00	Call	Call
	MODEM-PC9-CAB	Cable between Modem & PC			
	NLWE-F-BD5	Connecting cable between Modem & controller			
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Controls & Drives

Portable PCs

product information



Portable PCs from Hewlett Packard, for prices please contact your local branch.

Standard	Business	Professional	Performance
6730s / 6735s	6730b / 6735b	8530p	8530w
Business Essential/Financially Savvy	Tailored for Business/Challenge the Status Quo	Power Plus Portability	Power to Perform
<ul style="list-style-type: none"> • 15.4" wide • Intel Celeron & Core 2 processors / AMD processors • Optional 256MB ATI discrete graphics (6730s) • Optional integrated camera 	<ul style="list-style-type: none"> • 15.4" wide • Intel Celeron & Core 2 processors / AMD processors • Optional integrated camera • Optional WWAN • Universal docking support 	<ul style="list-style-type: none"> • 15.4" wide • Intel Core 2 processors • Intel vPro • Optional integrated camera • Upgradable WWAN • Universal docking support 	<ul style="list-style-type: none"> • 15.4" wide • Intel Core 2 processors • Optional integrated camera • High-performing Discrete graphics • Universal docking support

The above are just a few examples of the complete range of HP Portable PCs.

We can also offer lightweight 12.1" wide, 14.1" wide, 17" wide, tablet PCs, etc.

For details of the complete range on offer from BPX, please contact your local branch.

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