

HUMAN MACHINE INTERFACE



*Product range
overview*



Your partner in industrial automation systems

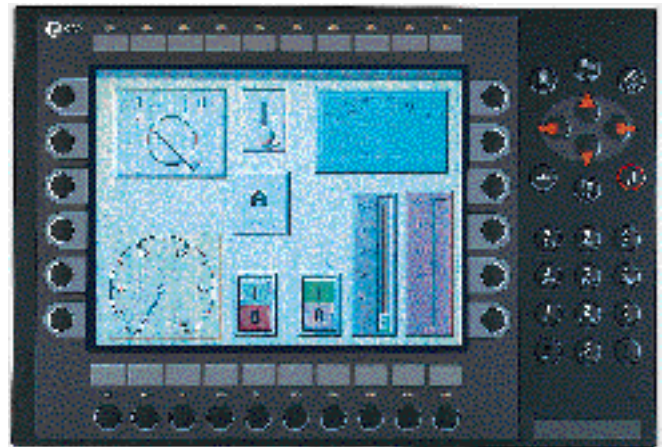
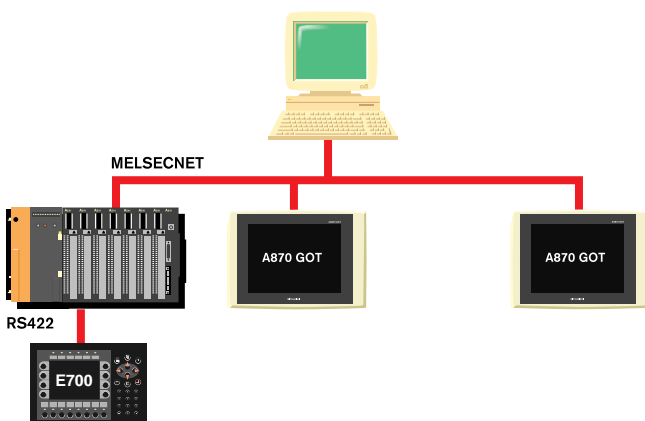
GRAPHIC OPERATOR TERMINALS

Complementing their wide range of versatile PLCs, Mitsubishi offer the user the most comprehensive collection of user-friendly Graphic Operator Terminals (GOTs).

- Colour graphics options
- Network capability
- Password protection
- Real time clock
- Recipe handler
- Touch screen options
- Print functions
- Device monitor



Designed to simplify industrial automation, any number of sophisticated GOTs can be networked with Mitsubishi's powerful PLCs. Entire factories can be monitored and controlled using a network of GOTs and PLCs.



With the GOT's graphic capabilities, an operator can easily monitor the status of equipment.

Be it an open valve or closed switch, there is little room for misinterpretation with clear drawings and symbols. A picture is often worth a thousand words.

Furthermore, the user can simply create his own unique graphic screens - either by using the GOT itself, or via software on a Personal Computer.

In addition to touch screen and colour options, Mitsubishi's GOTs incorporate, as standard, many advanced features for easier



process control. For example, process information can be read by the GOTs Data Sampling function and rapidly displayed as a bar chart or line graph.

Printing is also straight forward. Both graphics and text can be sent directly to a printer using the GOT's print function.

Compact and sophisticated, Mitsubishi's GOTs are an ideal replacement for text displays, chart recorders, temperature monitors and even small SCADA systems.



OPERATOR TERMINALS

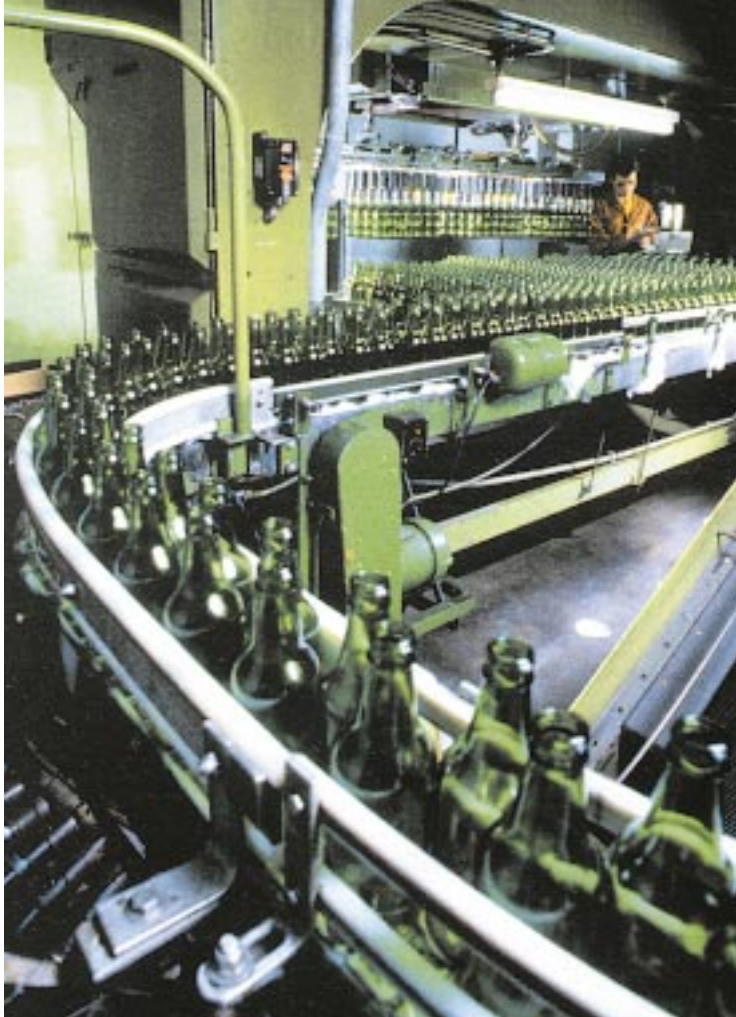
The Mitsubishi family of easy to use Operator Terminals include an optional choice for most applications.

- Rugged IP65 construction
- Real time clock
- Network capability
- Comprehensive print facilities

- Dedicated alarm functions
- Time channel control
- Transparent mode
- Recipe handler

Mitsubishi's range of Operator Terminals (OTs) are the 'big brothers' of the HMI family. Designed for rugged industrial environments, they are encased in steel and have an IP65 rating. Their robust construction makes them suitable for the toughest applications.



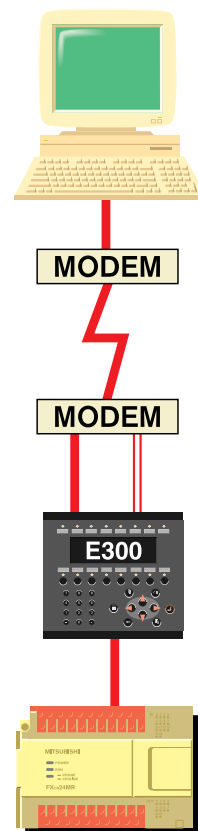


Available on many of the OTs as standard are built-in communications ports. They allow direct access to a PC, printer or a more extensive network.

To simplify the engineer's life, numerous time saving functions have been incorporated. For example, Index Addressing allows the rapid location of screens and data, eliminating the need for additional programming.

The convenient Time Channel Control function can switch devices on and off at certain times of the day. In this way, peaks in demand can be programmed in advance and met automatically.

The OT's unique Transparent Mode permits the user to program the PLC directly from the PC, without disconnecting the OT.



Nevertheless, the OTs have many of the GOT's sophisticated features. Simple to create alarm screens provide the user with added process safety - essential in any industrial environment.

DATA ACCESS UNITS

The range of Mitsubishi Data Access Units provide flexible, accurate solutions to operate in the toughest of environments.

- Access to device set points and variables
- User access range selection
- Password protection
- Real time clock
- Compact construction

Data Access Units (DAUs) are the simplest in the family of HMIs. By providing low

cost access to PLC information, they are popular in many industrial applications.

Easy-to-use functions allow the operator to obtain exact process information - either in Bit or Data format. Little or

no operator training is needed. Offering added flexibility and security, the DAUs replace thumbwheels and BCD outputs in a variety of panels and machine applications.



THE BEST IN DISPLAY TECHNOLOGY

From a whole industry, to the individual machine operator, Mitsubishi's human machine interfaces provide flexible and sophisticated control that's easy to use.

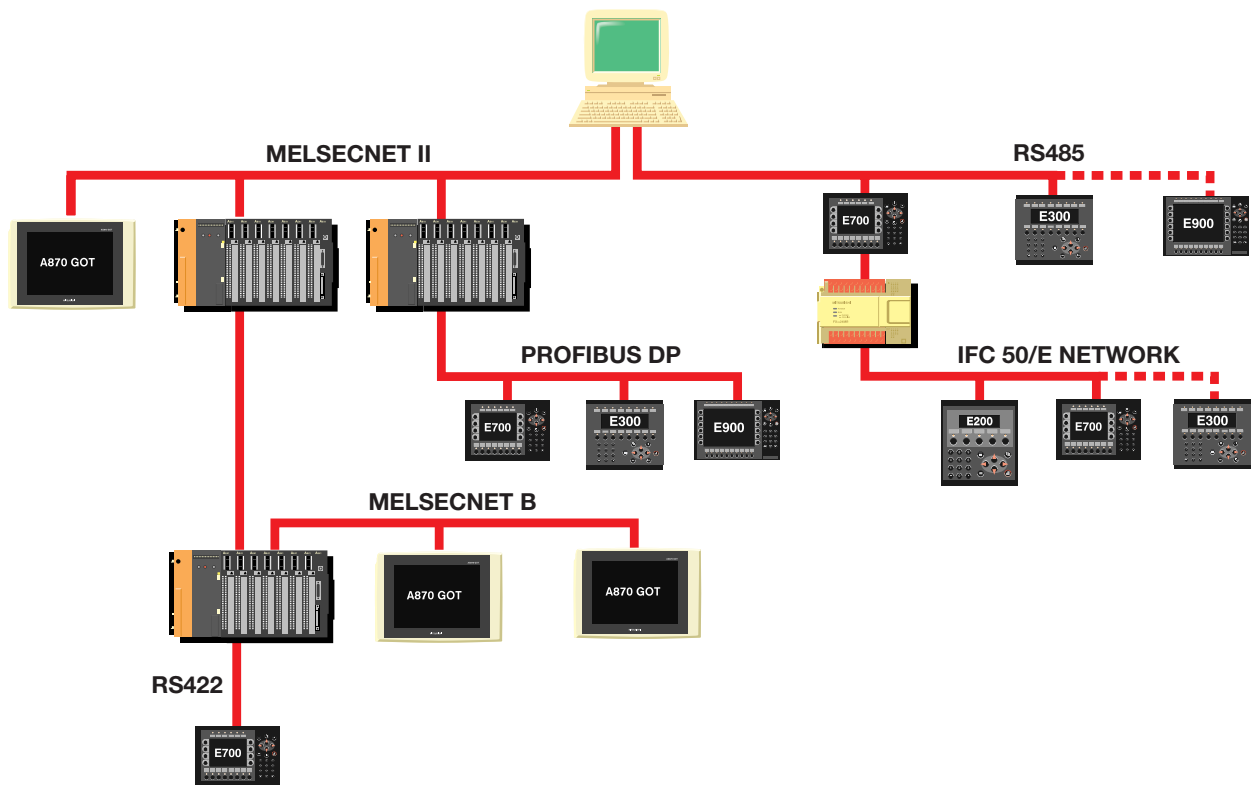
Mitsubishi are well known as a global leader in industrial automation. Combining state-of-the-art technology with extensive experience and knowledge of industry needs, we offer integrated solutions that are reliable, efficient and user-friendly.

Flexible software packages connect with the FX range of compact PLCs and the powerful 'A' series PLCs. Together with Q process control systems, we can provide solutions which mean the smallest to the largest application can be effectively and efficiently controlled.

Mitsubishi also understand that in today's world of 'high-tech' automation applications, often complex



information must be easily viewed, recognised and interpreted. Our range of Human Machine Interfaces (HMIs) are advanced display tools, which enable operators to make quick production decisions from easily understandable graphics and text - and help maintenance engineers to carryout quick programming repairs, minimising downtime.



Mitsubishi's expertise is not limited to excellent products. The best in technology is supported by the best in customer service. The Customer Technology Centre (CTC) is the hub of a nationwide support system, providing technical support,

Diamond Service packages, FaxBack - together with a state-of-the-art visitor centre and training facilities.

And, Mitsubishi's nationwide distributor network ensures that help is always close at hand.

SPECIFICATIONS



Function	A870GOT-SWS	A870GOT-EWS	E900	E700	E710	MAC 90	E300	E200	FX-50DU-TK-E	FX-50DU-TKS-E
Data Interaction	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Graphics	yes	yes	yes	yes	yes	yes	yes	-	yes	yes
Text Displays	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Real Time Clock	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Print Facilities	-	-	yes	yes	yes	yes	yes	yes	yes	yes
Alarm Facilities	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Programmable Function Keys	-	-	yes	yes	yes	yes	yes	yes	yes	yes
Touch Screen	yes	yes	-	-	yes	-	-	-	yes	yes
Networking	yes	yes	yes	yes	yes	yes	yes	yes	-	-
IP Rating	65	65	65	65	65	65	65	65	65	65
External Dimensions (WxHxD)mm	320x230x81	285x210x83	365x265x90	276x198x110*	212x198x110*	240x200x105*	212x198x110*	147x163.5x107*	190x140x65	190x140x110
Display	Colour	EL	Colour TFT	Colour LCD	Colour LCD	†LCD	†LCD	†LCD	†LCD	Colour
Number of Characters (CxR)	80x60	80x50	80x	40x	40x	30x16	40x8	20x4	40x14	40x14



Function	FX-40DU-TK-ES	FX-30DU-ES	FX-25DU-E	MAC50	MAC40+	MAC 12	MAC10	FX-20DU-E	FX-10DU-E
Data Interaction	yes	yes	yes	yes	yes	yes	yes	yes	yes
Graphics	yes	yes	yes	-	-	-	-	-	-
Text Displays	yes	yes	yes	yes	yes	yes	yes	-	-
Real Time Clock	yes	yes	-	yes	-	yes	yes	-	-
Print Facilities	yes	yes	yes	yes	-	-	-	-	-
Alarm Facilities	yes	yes	yes	yes	-	-	-	-	-
Programmable Function Keys	yes	yes	yes	yes	yes	yes	-	-	-
Touch Screen	yes	-	-	-	-	-	-	-	-
Networking	-	-	-	yes	-	-	-	-	-
IP Rating	††54	††55	65	65	65	65	65	54	54
External Dimensions (WxHxD)mm	186x140x65	186x125x78	151x85x89	190x175x80*	150x170x33*	96x72x41*	96x72x37*	120x174x44	92x115x26
Display	†LCD	†LCD	LCD Yellow/Red	LCD/VF	LCD	LCD	LCD	†LED	†LCD
Number of Characters (CxR)	30x7	30x4	10x4	20x4	16x2	16x2	16x1	11+4	16x2

* Depth with cable

† Backlit Display

†† Subject to Verification



**MITSUBISHI
ELECTRIC**

THE POWER TO INTEGRATE



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