

# Comfort

## HMI SOLUTIONS

### HMI and enclosure – Perfectly matched



**e-Factory**  
Partner Product

IMPROVED  
QUALITY 

Tough HMIs in tough enclosures for tough environments

INTELLIGENT  
DESIGN 

Customised enclosures to fit: design, size and accessories to meet every need

SPEED  
UP 

Premade HMI cut-outs in enclosures speed up assembly

# The ultimate visualization system



The GOT1000 series includes models for every application.

To meet the challenges of industrial plant control in today's market, it is essential that information is available instantly in the production process to avoid costly downtime and maximise throughput.

At the same time, comfort and safety is important in an environment where mobility and easy operation are key for operators, programmers and maintenance staff.

Therefore, Mitsubishi Electric and Rittal have responded to this by offering a complete solution that can be customised to meet your needs.

Utilising Mitsubishi's unparalleled range of high quality; touch screen GOT1000 Series Operator Terminals and Rittal's innovative and superbly designed command panels, provides the optimum solution to maximise your ROI (Return On Investment).

Some of the most important features of the GOT1000 series are:

- The high-resolution screens with 256 or even up to 65,536 colours can also display complex graphics.
- Fast USB port on the front of the units with transparent mode to MELSEC controllers, servo amplifiers and frequency inverters
- Compact Flash cards or USB memory sticks (depending on GOT type) to transfer and save project data and operation system updates
- Unicode enables display of all international languages
- Online language-switching up to 10 different languages
- Project transfer and remote maintenance via Ethernet possible (GT15 and GT16 only)
- 4-channel multidriver concept and fast data exchange between drivers possible

## Quick and Easy

Human Machine Interface systems enable operator interaction with machines to be quick, easy and precise. Rittal enclosure systems are modular, scalable, and work equally well in a centralised or decentralised environment.

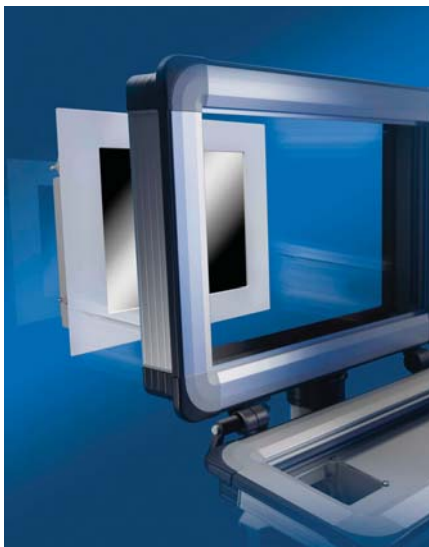
All Rittal operator panel housings can be configured to include virtually any Mitsubishi display and arrangement of I/O devices that the application requires. Whether through knobs, levers, controls, programmable function keys, or a full key pad, everything can conveniently be done through one Rittal system.

## Cost effective

Mitsubishi Electric HMIs can be quickly integrated into Rittal "customised" operator panel housings, for fast access of information and easy operation.

Key features of the successful Rittal enclosure range are the custom sizes, equipment and design.

- Penta 2 fasteners enable the operator panel to be mounted from the front or the back using screw clamps, bolts or screws
- Flat front frames provide optimal access as the frames are fastened together securely
- Soft plastic profiles around the edges minimise the risk of injury
- The design profile is used for labelling and matching the colour scheme to the machine
- Panels are designed to allow for mounting and installation of accessories



Soft plastic profiles reduce risk of injury

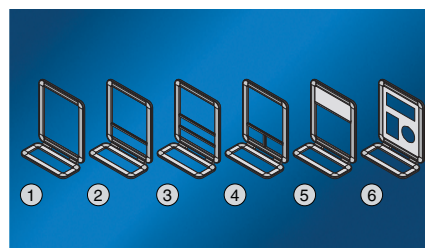


Displays can be quickly integrated into customised housings

## Front design

Division of the operating panel with Rittal standard modules meets all needs.

- Custom operator panel/keyboard housing for the selected display (1)
- Division using one (2) or two (3) cross members – horizontal, vertical or combined (4)
- Spacing panel and built-in trim panel on top (5) or bottom
- Adaptor plate (6) – according to your requirements



Standard housings and display plate

# GOT Specifications ///

Model		GT10 (10 units)	GT11 (4 units)	GT15 (24 units)	GT16 (12 units)
Display	type	STN	STN	STN, TFT	TFT
	dimensions (diagonal)	3.7" – 4.5"	5.7"	5.7" – 15"	8.4" – 15"
	text (lines x characters)	Freely definable	Freely definable	Freely definable	Freely definable
	character height (mm)	Freely definable, Windows fonts	Freely definable, Windows fonts	Freely definable, Windows fonts	Freely definable, Windows fonts
	max. resolution (pixel)	160 x 64 / 288 x 96	320 x 240	320 x 240 to 1024 x 768	640 x 480 to 1024 x 768
Power supply	5 V DC / 24 V DC	24 V DC	24 V DC / 220 V AC	24 V DC / 220 V AC	
Memory capacity	512 KB / 1.5 MB	3 MB	5 – 9 MB (expandable to 57 MB)	15 MB (expandable to 57 MB)	
External memory card	—	1 (CF, max. 2 GB)	1 (CF, max. 2 GB)	1 (CF, max. 2 GB)	
Key type	Touch panel	Touch panel	Touch panel	Touch panel	
Function keys	Touch keys	Touch keys + 6 function keys	Touch keys	Touch keys	
LED indicators	—	1 (Power ON)	1 (Power ON)	1 (Power ON)	
Interfaces	serial	2 x RS232, RS422 / RS232	RS232C, RS422	RS232	S232, RS422 / RS485
	others	—	USB	USB (at the front)	2 x USB (at the front)
Networks capability	Serial	Serial	Ethernet (TCP/IP), CC-Link, RS422, RS485, A bus, Q bus, MELSECNET/10/H	Ethernet (TCP/IP), CC-Link, RS422, RS485, A bus, Q bus, MELSECNET/10/H	
Protection (front)	IP67	IP67 / IP65 (Handy GOTs)	IP67	IP67	

# Panel Specifications ///



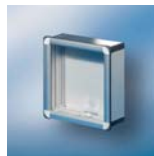
## VIP 6000

Multi-talented design and function 5 installation depths  
155 – 438 mm



## Optipanel

The slim design alternative 3 installation depths  
50 – 150 mm



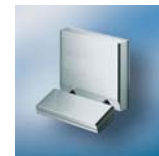
## Comfort Panel

Functional and secure 11 installation depths  
74 – 464 mm



## Compact-Panel

For small operator panels  
Installation depth of 69 mm



## Premium Panel

A stainless steel alternative 2 installation depths 120 and 220 mm

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