

## Graphical Operator Panel G2000



The Operate<sup>IT</sup> Graphical Operator Panel G2000 provides an efficient and user-friendly operator interface dedicated for Paper Machine Drives applications. Designed and tested for harsh environments, the Graphical Operator Panel can be installed in enclosures or desks close to the machinery.

The main task of the Graphical Operator Panel is to provide a user interface for the control of sectional drives on paper machines, coaters and winders. Multiple panels can be installed to operate the same section, and multiple sections can be operated from the same panel. It is also possible to combine panels with PC operator stations for maximum flexibility.

The Graphical Operator Panel is capable of displaying a mix of alphanumeric and graphical user data with fast response. Special, programmable graphical symbols enhance the user interface and enable information and commands to be displayed as symbols or in languages using graphic characters such as Chinese.

## Easy to operate

The Graphical Operator Panel has a rugged design, IP 65 level front panel, fulfilling CE-mark acceptance criteria in line with the requirements for heavy industry. These features enhance the longevity of the applications in the harsh environment of industrial solutions. The back cover is firmly protected against dust.

G2000 is easily operated with keys around the programmable keypad. Using these keys, the operator can select functions, initiate actions, or select displays. The programmable keypad function makes the G2000 easy to operate with a minimum number of keys.

Designed for industrial use, the full colour TFT LCD display of the G2000 features a wide viewing angle, sharp contrast and wide temperature range. The Graphical Operator Panel is available in two different display sizes 5"7 (G2000) and 10"5 (G2100).

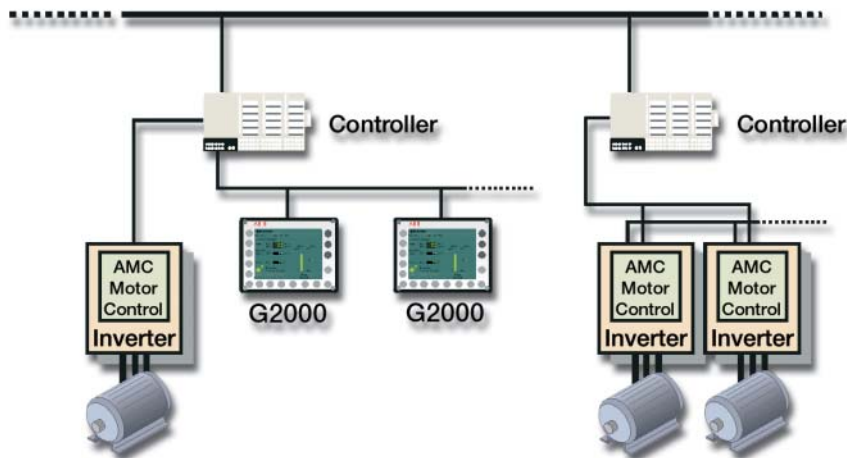
## Panel Interface to Paper Machine Drives

The Graphical Operator Panel has three isolated communication ports. Communication with the drive system controllers takes place over a multi-drop RS-485 line using a dedicated Profibus-DP protocol. The RS-232 is used for downloading the software and diagnosing the equipment.

## Programming Tool

Graphical Operator Panels are configured using a Windows-based tool program, GopTool. GopTool offers graphical drawing tools to design display layout, parameter settings for communication and logical operations as well as calculations to create panel functionality. Common graphical presentations, such as bar charts and trend curves, are supported.

Panel configuration can be tested and verified in a Windows environment before it is transferred to the panel from a PC. Configurations as well as the internal panel software are stored in a re-programmable flash memory inside the panel.





## G2000 Technical Data

- Full colour TFT LCD display, (320x240pixels)
- Membrane keyboard with 17 push-button elements
- Physical dimensions: width 200mm, height 151mm, depth 98mm (mounting cut-out: 183x134mm)
- Weight: 2kg
- Power supply: 48V DC nominal (38-72V), 15W, optional: 24V DC (18-36V)
- Isolated Profibus interface: Profibus-DP (slave), RS-485, selectable baud rate (9600bps - 1.5Mbps), female 9-pin D-connector

## G2010 Technical Data

- Full colour 10"4 TFT LCD display (640x480pixels)
- Membrane keyboard with 18 push-button elements
- Physical dimensions: width 350mm, height 255 mm, depth 83 mm (mounting cut-out: 323x228 mm)
- Weight: 5kg
- Power supply: 48V DC nominal (38-72V), 15-25W, optional: 24V DC (18-36V)
- Isolated Profibus interface: Profibus-DP (slave), RS-485, selectable baud rate (9600bps - 1.5Mbps), female 9-pin D-connector
- Modbus/TCP over Ethernet
- Optional Accessories: GOP numeric keypad



## General Features

- Isolated programming interface: RS-232, selectable baud rate (9600 - 115200bps), female 9-pin D-connector
- Operating temperature range: +0 to +55 °C
- EMC Approvals: IEC61000-6-4:2001, IEC61000-6-2:2001

## Accessories

- Windows-based programming software: GopTool





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