

TouchScreen Monitor HG1B

MicrO/I Operator Interface

New



Key features of the Micro/I operator interface include:

- User configurable, forty-eight-point touch LCD screen
- Configuration software runs on Windows 3.10, 3.11 and 95
- Comes with two host ports RS232 and RS485
- Quick response of 300 msec
- 64k of memory for configuring up to 100 screens
- Built-in Buzzer for easy alarm
- Dynamic text messaging
- Library of bitmap images and graphics
- Drivers for Non-Iddec PLC available
- Vertical and horizontal bar graph indicators
- CE Marked and UL Listed
- Meets IP65 standards
- Space saving design — approximately 5.5" x 3" x 3.5"

General Specifications	Electrical	Rated voltage	24V DC ripple factor: 10% maximum
		Voltage variation range	85 to 120% of rated voltage
		Power consumption	10W maximum
		Instantaneous stopping time	10ms maximum
		Inrush current	10A maximum
		Dielectric strength	1500V AC, 10 ms, 1 hour (between power or I/O terminal and ground)
		Insulation resistance	In 500V DC megger at least 50MΩ (between power or I/O terminal and ground)
	Environmental	Operating temperature range	0 to 55°C (operation) 0 to 50°C (display contrast)
		Operating humidity range	10 to 90% relative humidity (avoid condensation)
		Storage temperature	- 20 to +70°C
		Storage humidity	5 to 90% relative humidity (avoid condensation)
		Vibration resistance	10 to 55Hz, 10 m/s ² (2 hours each in the X, Y and Z axes)
		Shock resistance	90 m/s ² (5 times each in the X, Y and Z axes)
		Noise resistance	IEC1000-4-4 compliant Between power terminal and ground: 1k V rms, 1ms (with noise simulator)
		Static electricity resistance	5kV (using a static electricity simulator)
		Operating atmosphere	No corrosive gases
	Structural	Installation	Panel mount
		Protection rating	IP65
		Exterior dimensions (W x H x D)	5.7" x 2.9" x 3.3" (146 x 75 x 85.5mm)
		Weight	450g approximate

Operating Specification	On-Screen Switches	Operating method	Resistive touch overlay
		Touch points	12 x 4 = 48
		Operating pressure	100g or less
		Life	1,000,000 operations minimum
	Function Switches	Operating method	Pressure sensitive switch
		Life	1,000,000 operations minimum

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Part Numbers:

Item	Part Number	Description
HG1B Touch Screen	HG1B-SB22WF	RS-232C and RS-485 host interface and RS232C maintenance
Maintenance Cable	HG9Z-XCM1A	Link cable for RS232C maintenance port to PC
Host Cable	HG9Z-XC11A	Link cable for RS232C host port to RS232C port of PLCs (In addition, FC2A-KC2 cable + gender changer is required.)
	HG9Z-XC12A	Link cable for RS232C host port to IDEC FAseries PLCs
	HG9Z-XC13A	Link cable for RS485 host port to IDEC Micro ³ series PLCs
	HG9Z-XC183	Link cable for RS232C host port to IDEC Micro ³ C series PLCs
	Standard shielded wires	Link cable for RS485 host port to IDEC Micro ³ C data link port
Shellpa	HG9Z-Shellpa	Confguration software (include Communication drivers for non-IDEDEC PLCs)

Display Specifications	Device	Display elements	STN blue mode LCD
		Backlight	Blue, or white
		Effective display	3.7" x 1.2" (95 x 31mm)
		Number of pixels	192 x 64
		Pitch	0.5 x 0.5mm
		Pixel size	0.47 x 0.47mm
		Element life	At least 50,000 hours
		Backlight life	At least 20,000 hours
	Character Display	Size	1/4 size: 8 x 8 dots, 1/2 size: 8 x 16 dots, Full size: 16 x 16 pixel
		Number	1/4 size: 24 x 8 lines, 1/2 size: 24 x 4 lines, Full size: 12 x 4 lines
		Types	1/4 size: JIS 8-bit code, IBM code page 437, 1/2 size: IDEC font, Full size: JIS No. 1 standard characters. IDEC font
		Attributes	Vertical/horizontal magnication: 1, 2, 3, and 4 times (except 1/4 size), blinking
	Graphic Display	Graphic elements	Lines, rectangles, circles, arcs, elliptical segments, ellipses, regular polygons (3 to 8 sided), and bitmap images.
		Lines	Solid, thick, and dotted (straight lines only)
		Attributes	None

Display Software Specification	Display Pages	Up to 100 text/graphic pages
	Numeric Data Entry	Pop-up numeric keypad
	Touch Points	Up to 48 touch points per page
	Touch Functions	Toggle digital points on/off, values up/down, change presets, change pages, and acknowledge alarms
	Operator Feedback	Visual/audible feedback of touch input
	Text	Userdenable as static or dynamic
	PLC Support	Communication drivers support most PLCs
	Alarm Confirmation	Internal buzzer

Critical Alarms for Critical Conditions

In an alarm situation, it is absolutely necessary for For example, a critical alarm indicator may be congured to machine operators to be aware of machine status. Despite ash at a rapid rate or sound buzzer. Less critical alarms may the Micro/I compact size, operators can see screen alerts be congured to ash at a slower rate. and/or hear buzzer from across the plant oor .

Intuitive Conguration

Micro/I HG1B operator interface offers noticeable differences to the sight and touch. Operated by touch points rather than a keypad membrane, new era of Human Machine Interfaces (HMIs) emerges with an intuitive feel.

Key features of the Shellpa conguration software include:

- Easily congure operator screens on your PC
- Operates with Windows 95, 98, 2000, NT
- Develop and download Micro/I databases
- Analog values; toggle digital data; change pages; address alarms
- Supports a selection of non-IEC PLCs
- Accepts imported bitmapped images
- Features a complete library of images
- Congure up to 100 pages of text or graphics

