



GE Fanuc Automation

DataPanel™ Ordering Guide

- Displays1
- Software4
- Communications5
- Accessories5
- Starter Kits6



Displays

DataPanel Model 20

This DataPanel is designed to access data tables and other status information in a GE Fanuc PLC. The DataPanel 20 requires no programming or other configuration to operate. Plus, no extraneous power supplies and cables are necessary as the PLC communications port provides the necessary 5 V power through the communications cable. Using reserved registers in the PLC, messages and bar graphs can be displayed along with specific register values. If more advanced messaging is required, users may purchase a DataPanel 40 or 45 — the programmable versions of the DataPanel 20.



Specifications	
Overall Dimensions WxHxD in (mm)	4.25x2.36x1.06 (108x60x27)
Cutout WxH in (mm)	3.62x1.77 (92x45)
Display Size	2 lines x 16 characters
Display Type	Backlit LCD
Operating Temperature	0 to 50°C

Specifications	
Storage Temperature	-25 to 80°C
Humidity	10 to 90% non-condensing
Panel Rating	IP65 Category I, when properly installed in an IP65 enclosure
Power Supply	5 V, 98 mA (from communications cable)
Agency Approvals	UL, Class I/Div 2
Communications	1 PLC Comm Port, RS-232 (DB9 M)

Catalog Number	
IC200DXTX200	2 x 16 character text LCD with 6 non-programmable keys

DataPanel Models 40, 45, 60, 65

These models add a new level of cost effectiveness to the DataPanel solution. From a 2x16 character display and 6 function keys to a 4x16 character display and 8 function keys, these operator interfaces will fit any small application.



Specifications	
Overall Dimensions WxHxD in (mm)	Models 40/45: 4.25x2.36x1.73 (108x60x44) Models 60/65: 3.78x3.78x1.57 (96x96x40)
Cutout WxH in (mm)	Models 40/45: 3.62x1.77 (92x45) Models 60/65: 3.62x3.62 (92x92)
Display Size	Models 40/45: 2 x 16 characters Models 60/65: 4 x 16 characters
Power Requirements	Model 40: 5 V, 130 mA Model 45: 24 V, 45 mA Model 60: 5 V, 145 mA Model 65: 24 V, 65 mA

Specifications	
Display Type	Backlit LCD
Operating Temperature	0 to 50°C
Storage Temperature	-25 to 80°C
Humidity	10 to 90% non-condensing
Panel Rating	IP65 Category I, when properly installed in an IP65 enclosure
Agency Approvals	UL, Class 1/Div 2
Communications	1 PLC Comm Port, RS-232 1 Programming Port, RS-232
Available Tags	100 Analog, 100 Digital

Catalog Number	
IC200DTX400	2 x 16 character text LCD with 6 function keys, 5 V
IC200DTX450	2 x 16 character text LCD with 6 function keys, 24 V
IC200DTX600	4 x 16 character text LCD with 8 function keys, 5 V
IC200DTX650	4 x 16 character text LCD with 8 function keys, 24 V

DataPanel Model 85

The DataPanel 85 rounds out the low-end DataPanel solution. A 4x20 character display, 8 function keys, and a numeric keypad complete this model's features.



Specifications	
Overall Dimensions WxHxD in (mm)	7.17x3.98x1.46 (182x101x37)
Cutout WxH in (mm)	6.38x2.99 (162x76)
Display Size	4 x 20 characters
Power Requirements	24 V, 80 mA
Display Type	Backlit LCD
Operating Temperature	0 to 50°C

Specifications	
Storage Temperature	-25 to 80°C
Humidity	10 to 90% non-condensing
Panel Rating	IP65 Category I, when properly installed in an IP65 enclosure
Agency Approvals	UL, Class 1/Div 2
Communications	1 PLC Comm Port, RS-232 1 Programming Port, RS-232
Available Tags	100 Analog, 100 Digital

Catalog Number	
IC200DTX850	4 x 20 character text LCD with 8 function keys and numeric keypad

DataPanel Models 150, 160

These DataPanels provide very powerful features at a very low price. They feature a 240 x 64-pixel backlit LCD, 6 programmable function keys, a numeric keypad and 4 navigation and editing keys. The Model 150 supports text messages and labels using multiple fonts. The Model 160 supports graphic features such as bar meters, trend graphs, dynamic bitmaps and more. Both Model 150 and 160 have one port for PLC communications. The Model 160 has a second port which may be used for printer output, slave DataPanels or connection to a second PLC. The Model 160 also has PC/104 support which provides network capability for Genius® or Profibus-DP™. More than 70 serial protocols are supported and are included with DataDesigner™ programming software.



Specifications	
Overall Dimensions WxHxD in (mm)	Model 150: 8.19x7.40x2.04 (208x188x52) Model 160: 8.19x7.40x2.84 (208x188x72)
Cutout WxH in (mm)	7.75x6.97 (197x177)
Display Size WxH in (mm)	4.88x1.38 (124x35)
Characters per line	40 (max)
Number of lines	8 total (6 user defined, 2 system use)
Display Type	Mono LCD, LED Backlight, 240 x 64 pixels
Graphics	Model 150: No Model 160: Yes

Specifications	
Operating Temperature	0 to 50°C
Storage Temperature	-20 to 60°C
Humidity	5 to 85% non-condensing
Panel Rating	NEMA 4/4X/12
Power Supply	Model 150: 12 to 35 VDC, 4.5 W Model 160: 12 to 35 VDC, 9 W
Agency Approvals	FCC, UL, CUL, Class I/Div 2, CE
Communications	Com 1: RS-232/422/485 Com 2: RS-232 for Model 160 only PC/104 for Model 160 only

Catalog Number	
IC752DFT000	240 x 64 pixel text LCD with 6 function keys and numeric keypad
IC752DSX000	240 x 64 pixel graphic LCD with 6 function keys and numeric keypad

DataPanel Model 240E

The Model 240E is a fully interactive operator interface that has a 240 x 128-pixel backlit LCD with touch screen. The Model 240E supports graphic objects such as bar meters, trend graphs, dynamic bitmaps, pushbuttons and more. The Model 240E also features 6 programmable function keys and 4 navigation and editing buttons. Numeric data entry is provided through a graphic/touch keypad. The Model 240E has 2 ports for PLC communications and PC/104 support for Genius and Profibus-DP network interfaces. The second COM port may also be used for printer output. More than 70 serial protocols are available and are included with DataDesigner programming software.



Specifications	
Overall Dimensions WxHxD in (mm)	8.19x7.40x2.84 (208x188x72)
Cutout WxH in (mm)	7.75x6.97 (197x177)
Display Size WxH in (mm)	4.70x2.50 (119x64)
Characters per line	40 (max)
Number of lines	16 total (14 user defined, 2 system use)
Display Type	Monochrome LCD, CCFT Backlight, 240 x 128 Pixels
Graphics	Yes
Touch Screen	6 x 8 Matrix, Resistive

Specifications	
Operating Temperature	0 to 50°C
Storage Temperature	-20 to 60°C
Humidity	5 to 85% non-condensing
Panel Rating	NEMA 4/4X/12
Power Supply	12 to 35 VDC, 9 W
Agency Approvals	FCC, UL, CUL, Class I/Div 2, CE
Communications	Com 1: RS-232/422/485 Com 2: RS-232 PC/104

Catalog Number	
IC752BDT100	240 x 128 pixel graphic LCD with touch screen and 6 function keys



Software

DataDesigner

DataPanel configuration is quick and easy with DataDesigner programming software, a tool you can use under Windows® 95/98, NT or 2000 to configure all of your DataPanels. Simply create a database for each DataPanel by following DataDesigner's simple dialog prompts, then load the database and protocol from your PC through the DataPanel's serial port. Extensive help screens are provided to assist programming. Function keys can be programmed screen-by-screen to act as momentary, toggle or direct data write. You can even program macros and recipe download. When programming Models 160 and 240E, graphics can be drawn using DataDesigner tools, or bitmap images can be imported. Each instrument is dropped on the screen, sized by dragging the corners and configured via a user-friendly dialog to link the object to a tag in the PLC.

DataDesigner Features and Compatibility

	Graphic Features	40, 45	60, 65	85	150	160	240E
Lines	Lines and polygons				●	●	●
Rectangles	Open or filled rectangles					●	●
Frames	3-D style boxes					●	●
Circles	Open or filled circles					●	●
Bitmaps	Static or dynamically controlled by tag value					●	●

	Operator Input	40, 45	60, 65	85	150	160	240E
Touch screen buttons	Graphic buttons and touch zones						●
Function key inputs	Functions defined on each page	●	●	●	●	●	●
Toggle	Tag toggles between two values	●	●	●	●	●	●
Jog	Maintains value while pressed, inverts on release	●	●	●	●	●	●
Direct write	Writes operator-entered value to a tag	●	●	●	●	●	●
Ramp	Changes the tag value incrementally	●	●	●	●	●	●
Macro	Perform a custom-configured operation	●	●	●	●	●	●
Recipe download	Load recipe data to the PLC				●	●	●

	Animation	40, 45	60, 65	85	150	160	240E
Position	Object position controlled by tag value				●	●	●
Blink	Object blinking controlled by tag value	●	●	●	●	●	●
Visibility	Object visibility controlled by tag value	●	●	●	●	●	●
Trends	Real-time trend chart					●	●
Trend Records	Pre-configured real-time trend Wizard					●	●

	Alpha-Numeric Features	40, 45	60, 65	85	150	160	240E
Text	Text messages and labels	●	●	●	●	●	●
Analog tag	Display value of an analog tag	●	●	●	●	●	●
Digital tag	Display tag value or status text	●	●	●	●	●	●
Multiple fonts	10 fonts to choose from				●	●	●
Multiple text sizes	Adjust character height and width				●	●	●
Alarms	Alarms triggered by analog or digital tags				●	●	●
Bar meters	Real-time bar graph				●	●	●

Catalog Number	
IC752DDZ000	DataDesigner installation disks, manual and download cables



Communications

Communication Cables for DP150, 160, 240E

PLC	PLC Port	Port Type	Type	Catalog Number
AB MicroLogix	Prog Port	Mini-DIN	RS-232	IC752CAB202
AB SLC-500	DH-485 Port	RJ-45	RS-485	IC752CAB201
AB SLC-500	Channel 0	9-pin D	RS-232	IC752BCL000
GE Fanuc Series 90	SNP Port	15-pin D	RS-485	IC752CGE201
GE Fanuc Series 90	CMM Module	25-pin D	RS-232	IC752CGE202
Mitsubishi Fx	Prog Port	25-pin D	RS-422	IC752CMI201
Modicon 984	Modbus Port	9-pin D	RS-232	IC752CMO201
Modicon Micro	Modbus Port	RJ-45	RS-232	IC752CMO202
Omron	Host Link Port	9-pin D	RS-232	IC752COM201
Omron	Host Link Port	25-pin D	RS-232	IC752COM202
Siemens S7-200	PPI Port	9-pin D	RS-485	IC752CSI201

Communication Cables for DP20, 40, 45, 60, 65, 85

PLC	PLC Port	Port Type	Type	Catalog Number (20, 40, 60)	Catalog Number (45, 65, 85)
AB MicroLogix	Prog Port	Mini-DIN	RS-232		IC752CAB102
AB SLC-500	DH-485 Port	RJ-45	RS-485		IC200CBL605
AB SLC-500	Channel 0	9-pin D	RS-232		IC752BCL001
GE Fanuc Series 90	SNP Port	15-pin D	RS-485	IC200CBL520	IC200CBL525
GE Fanuc Series 90	CMM Module	25-pin D	RS-232		IC752CGE102
GE Fanuc VersaMax	CPU Port 1	9-pin D	RS-232		IC200CBL545
GE Fanuc VersaMax	Nano/Micro	RJ-45	RS-232	IC200CBL550	IC200CBL555
Mitsubishi Fx	Prog Port	25-pin D	RS-422		IC200CBL655
Modicon 984	Modbus Port	9-pin D	RS-232		IC752CMO101
Modicon Micro	Modbus Port	RJ-45	RS-232		IC752CMO102
Omron	Host Link Port	9-pin D	RS-232		IC752COM101
Omron	Host Link Port	25-pin D	RS-232		IC752COM102
Siemens S7-200	PPI Port	9-pin D	RS-485		IC200CBL635

Accessories

Accessories

	Catalog Number	Description
Communications	IC752GEN100	Genius PC/104 module for Models 160, 240E
	IC752PBI100	Profibus-DP PC/104 module for Models 160, 240E
Power Supplies	SPS-12W	12 W, 24 VDC DIN rail mount power supply module, 0.5 A, 85 to 265 VAC
	SPS-24W	24 W, 24 VDC DIN rail mount power supply module, 1.0 A, 85 to 265 VAC
	SPS-50W	50 W, 24 VDC DIN rail mount power supply module, 2.1 A, 85 to 265 VAC
	SPS-120W	120 W, 24 VDC DIN rail mount power supply module, 5.0 A, 85 to 265 VAC
Spare Parts	IC200CBL500	Download cable for Models 40, 45, 60, 65, 85
	IC752BCL000	Download cable for Models 150, 160, 240E
	IC752MSC001	Power connector for Models 150, 160, 240E
	IC752MSC002	Mounting clips (6) for Models 150, 160, 240E

Starter Kits

Starter Kits

Starter kits include the DataPanel, DataDesigner software, manuals, download cable and PLC communication cable for GE Fanuc SNP (15-pin) port.

Catalog Number	Description
IC752SKT009	Starter kit including Model 150
IC752SKT008	Starter kit including Model 160
IC752SKT011	Starter kit including Model 240E



GE Fanuc Automation

GE Fanuc Automation Information Centers

USA and the Americas 1-800-GE FANUC or (434) 978-5100

Europe and Middle East (352) 727979-1

Asia Pacific 86-21-3222-4555

© 2003 GE Fanuc Automation Americas, Inc. All Rights Reserved. DataPanel and DataDesigner are trademarks and Genius is a registered trademark of GE Fanuc Automation Americas, Inc. Profibus-DP is a trademark of Profibus International. Windows is a registered trademark of Microsoft Corporation. All other trademarks are the property of their respective owners.

Additional Resources

For detailed technical specifications and product ordering information, please visit the GE Fanuc website at:

www.gefanuc.com