PowerText

A Family of Character Based Operator Interfaces.

PowerText from AVG is a family of character-based operator interfaces. PowerText allows you to display messages, under PLC control, for machine/process status, operation and/or diagnostics. These messages can have embedded data to provide information to operators. In addition, PowerText can be used for data-entry; for example, for machine/process setup. Below are some of the example messages for which PowerText can be used:

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RUN MODE                 (Machine Status)
PROD 250/HR

Temp too high            (Process Alarm)

Enter Parts qty:         (Data Entry)
12345
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Message Storage. In addition to PLC-controlled messages, the PowerText can also store "local" messages. These messages can be help messages for operators and can be grouped in folders for easy navigation. A LED clearly indicates if the displayed message is triggered from a PLC or is a local message.

PowerText models come in 5 Pushbutton keys and 4 navigation keys. The pushbuttons allow operators to set/reset bits in PLCs, while the navigation keys helps in navigating through messages, and in data entry.

Data Entry. The data entry can be inputted in two different ways—through the Inc/Dec keys or using numeric keypad (where applicable). Each of the pushbuttons can be independently programmed to behave as Toggle, Momentary, or Set by Push and Reset by PLC.

Indicator Lights. PowerText also comes with 5 indicator lights, which can individually be programmed to display status of Pushbutton, or a bit in PLC.

Powerful Connections. PowerText can communicate with most major PLCs, on market such as AB, Modicon, Siemens, GE, etc, using serial protocols.

PowerText Products

Preliminary Specifications

	UPT-2X20N-001	UPT-2X20L-001	UPT-4X20N-001	UPT-2X20K-001	UPT-SP000-001
Description	2x20 LCD display, five user defined pushbuttons, five LEDs	2x20 LCD display, large characters, five user defined pushbuttons, five LEDs	4x20 LCD display, five user defined pushbuttons, five LEDs	2x20 LCD display, numeric keypad, five user defined push buttons, three tri-color LED annunciators	1x16 LCD display, five control pushbuttons
Display Type	Character LCD, 2 lines by 20 characters w/LED backlight		Character LCD, 4 lines by 20 characters w/LED backlight	Character LCD, 2 lines by 20 characters w/LED backlight	Character LCD 1 line by 16 characters w/8 digit .52" LED numeric display
Character Height	5.55mm (0.22")	8.06mm (0.316")	4.75mm (0.187")	5.55mm (0.22")	8.06mm (0.316")
Keypad Overlay	5 user-defined pushbuttons and 4 Navigation control keys			5 user-defined pushbuttons and 4 Navigation control keys, and Numeric Keypad	4 Navigation control keys
Indicator LEDs	5 user-defined LEDs			5 user-defined LEDs, and 3 user-defined annunciators	
Input Voltage	24VDC (20-30VDC operating range)				
Power Consumption	4 Watts @ 24VDC	4.5 Watts @ 24VDC	4 Watts @ 24VDC	5.5 Watts @ 24VDC	6.5 Watts @ 24VDC
Enclosure	NEMA 4, 4X				
Agency Approval	UL, cUL, CE				
Operating Temperature	0° to 45°C (32° to 113°F)				
Storage Temperature	-20° to 60°C (-4° to 140°F)				
Humidity	10-95% RH, (non-condensing)				
Electrical Noise	NEMA ICS 2-230 showering arc ANSI C37.90a-1974 SWC Level C Chattering Relay Test				
Withstand Voltage	1000VDC (1 minute), between power supply input terminal and protective ground (FG)				
Vibration	5 - 55Hz 2G for 2 hours in the X, Y, and Z axes				
Shock	10G for under 12 ms in the X, Y, and Z axes				
Burn-in	Temperature cycled 96 hours and then fully functional tested				
LED/LCD Life	100,000 hours				
Serial Communications	Download/Program/PLC Port RS-232/RS422/RS485 15-pin D-sub (female)				
Dimensions (in/mm)	6.650x4.124"	9.250x4.124"	6.650x4.124"	9.250x4.124"	
Mounting cutout	5.910x3.712"	8.510x3.712"	5.910x3.712"	8.510x3.712"	
Weight (lbs.)	?	?	?	?	?
Number of Messages	256 (PLC as well as Local messages)				
Embedded Data/message	3 Variables per message (one read/write and two Read-only)				

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