



Making Data Acquisition Easy

CAGE/NCAGE Code: 3FNFO

Modbus Display and Alarm Controller

In the modern world, having too much information is never a bad thing. In manufacturing, PLC's and Data Acquisition equipment are used to collect data from sensors and other input devices and control equipment and process to produce products as efficiently as possible.

Modbus is the most commonly used protocol in the Industrial world. Because it has been license free and free to use for a long period of time, it is has become almost a standard protocol for industrial equipment. It has also spawned an Ethernet version called Modbus TCP. Both Modbus RTU and Modbus TCP can be used to pass data between devices and locations. The data can be vital to keeping production running.

Some processes work without human intervention while others require occasional intervention.

- Raw materials running low
- A backup on a production line
- Failing equipment

These are some examples of times when an alert or status update can help.

If raw material levels were displayed and showed or sounded an alert, a worker could refill or replenish the raw material which is running low.

If there is a backup on a production line, an alarm could sound and the location of the backup can be isolated, extra equipment or resources could be dispatched prior to a complete stop in production.

If equipment is failing or not functioning to optimum level, new equipment or repair parts can be ordered before failure.

These are all examples of situations when one of our VPD, touchscreen displays could be useful.



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The VPD series of Touchscreen controllers are available with 3.5", 4.3" and 7.0" displays. There are models which communicate to Modbus TCP and Modbus RTU devices. The programming is done with our free HMI Works software. The VPD series has an IP65 front face including the touchscreen.

They can be used to simply display Modbus data numerically using the built in label widgets or visually display using graphical images from the image library or you can create and import your own images. Alarm notifications can be created using the ladder logic or C programmable function of the VPD built into the HMI Works. Using ladder, simply compare analog data to predetermined presets and you can trigger an audio alarm, a graphic color or object change or trigger an alarm as a Modbus master or slave device in a plc or alarm controller.

VPD - 1



Touch Screen Size
3: 3.5 Inch
4: 4.3 Inch
7: 7 Inch



Communication Interface
0: RS-485
2: RS-232/RS-485 + RS-485
3: RS-232/RS-485 + RS-485 + Ethernet
(N): No Rubber Keypad

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H: High Speed Version
64: 64 MB Extra Flash



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Model	Memory Expansion	Image Storage Capacity	Communication Interface		LCD	RTC	I/O Expansion Boards	Rubber Keypad	Ingress Protection	Power Input
			COM port	Ethernet						
VPD-130-H	16 MB SDRAM/16 MB Flash	108	COM1:RS-232/RS-485 (including Self-Tuner)	-	3.5 TFT (Resolution 320 x 240, 65536 colors)	Yes	Yes	Yes	Front Panel: IP65	+12 ~ 48 Vdc
VPD-130N-H								-		
VPD-132-H								Yes		
VPD-132N-H			-	+12 ~ 48 Vdc or PoE						
VPD-133-H			Yes							
VPD-133N-H			-							
VPD-142-H	16 MB SDRAM/16 MB Flash	64	COM1 : RS-485 or RS-232	-	4.3" TFT (Resolution 480 x 272, 65536 colors)	Yes	Yes	Yes	Front Panel: IP65	+12 ~ 48 Vdc
VPD-142N-H								-		
VPD-143-H			Yes	+12 ~ 48 Vdc or PoE						
VPD-143N-H			-							
VPD-173N	16 MB SDRAM/16 MB Flash	18	COM1: RS-232 or RS-485 COM2: RS-232 or RS-485	Ethernet (10/100 Mbps)	7" TFT (Resolution 800 x 480, 65536 colors)	Yes	-	Front Panel: IP65	+12 ~ 48 Vdc or PoE	
VPD-173X	16 MB SDRAM/64 MB Flash	84								-
VPD-173N-64										-
VPD-173X-64										Yes

If you have any questions concerning any of our VPD controller products, please contact us.