

Vindum Pump Control Options

Pump Control System	Description	Control Platform	Pump Control Capabilities	Access to Pump Data	Example Applications	Connection Type
VPware	Proprietary pump-control application developed by Vindum and included in pump pricing.	PC running Windows 7 or later	Full Pump Control, graphing, advanced features, and error/warning notices	Real-time graphing and/or save to CSV file for later analysis.	VPware is capable of controlling 16 pumps from one computer.	<ul style="list-style-type: none"> • RS232–USB • USB-USB • RS232-RS232 • RS232-Ethernet (3rd party device)
.NET DLL	Dynamically linked library (DLL) that handles communication with Vindum pumps and provides a programming API for customer’s control application.	PC running Windows 7 or later	Full library of pump commands	Full pump data is available.	MATLAB	<ul style="list-style-type: none"> • RS232–USB • USB-USB • RS232-RS232 • RS232-Ethernet (3rd party device)
DDE	Vindum pump acts as “server” to a DDE “client” application.	PC running Windows 7 or later	Full library of pump commands	Full pump data is available.	LabVIEW or other applications with DDE client capability	<ul style="list-style-type: none"> • RS232–USB • USB-USB • RS232-RS232 • RS232-Ethernet (3rd party device)
Binary	Direct binary interface with CRC (cyclic redundancy error check)	Any system that uses binary RS232 communication.	All pump functions are available in binary code.	Full pump data is available.	LabVIEW Real-Time	<ul style="list-style-type: none"> • RS232–USB • USB-USB • RS232-RS232 • RS232-Ethernet (3rd party device)
Analog / Digital	15-pin connector on pump uses digital signals for Run/Stop and status & analog input to set pressure/rate.	Digital/Analog controller (PLC or similar).	Digital control for Run/Stop & Pump Status; Analog for Rate and Pressure values	VPware can be used to capture pump data (pressure, rate, etc.).	For use with Programmable Logic Controllers or similar.	HD15 port for Option Module. USB to RS232 or RS232 to RS232 (for VPware).
HMS Anybus® Communicator™	Protocol converter gateway enables Vindum Pumps to interface with all major fieldbus or Industrial Ethernet networks.	All major platforms: Profibus DP, Ethernet/IP, Modbus RTU or TCP, many others.	Pump commands and status are translated by the Anybus® Configuration Manager for access by the PLC.	Pump data is stored in device memory buffer then intelligently uploaded to network.	All major fieldbus or Industrial Ethernet networks.	RS232 connection to HMS Anybus® Communicator™