



Adroit Connect

Adroit Technologies' ultra-intuitive Adroit Connect modems seamlessly connect and integrate with Mitsubishi Variable Speed Drives using the Modbus Serial protocol, giving you the power to remotely monitor and control your VSD from our online portal via PC or mobile device.

Introduction

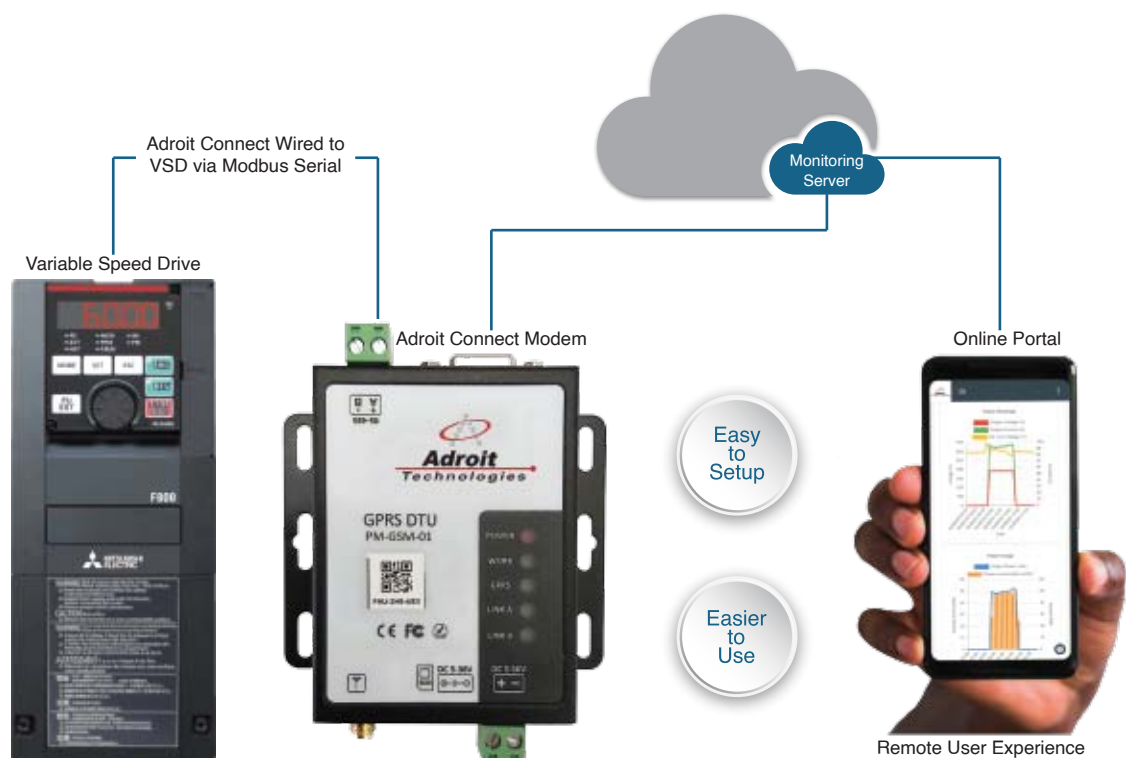
In today's remote working world, it's important that businesses adjust to the new normal and gives their employees the technology they need to get things done from anywhere. Adroit Connect is simple and cost-effective monitoring, control, and programming solution that allows you remotely manage and setup your Mitsubishi Variable Speed Drives, saving you from unnecessary trips to the site.

How does it work?

Adroit Connect modems seamlessly connect and integrate with the Mitsubishi Variable Speed Drives via Modbus Serial, giving you the power to remotely control your VSD from our online portal. From here you can program all of your VSD's parameters, changing the speed, direction, on/off times and more. Our portal also gives you access to advanced analytics and readings, as well as immediate error alerts, so you can stay informed and up-to-date on what's happening with your drive no matter where you are. Remote support is available from the Adroit Support department.

Basic System Connectability

The Adroit Connect modem can connect directly to Adroit SCADA with a special driver that was developed for this purpose to monitor the VSD's. The modem will work on the following VSD's FR-E800 Serial Version, FR-CS80 and FR-D700. When using the FR-A800 or FR-F800 VSD a serial communication module is required. For Solar applications it is only possible to monitor the VSD and change parameters. VSD start and stop is not supported.



Secure, reliable and easy-to-use

Adroit Connect Features

Advanced reporting and readings on, voltage, current, frequency, power consumption, run hours and more.

VSD Alerts via SMS or E-mail.

- Errors and faults.
- Pump start/stop notifications.
- Power status updates.

Access to live and historical data of the VSD via the Cloud Portal.

Compatible with any VSD controller with RS485 / Modbus Serial protocol.

Monitor all your devices on multiple sites around the world with our easy-to-use Cloud Management System.

Remotely program your VSD's parameters, including speed, direction, and on/off times.

1500+ different parameters that can be adjusted for maximum efficiency.



Secure, reliable and easy-to-use



The Online Portal

The Adroit online portal is easy-to-use, it also allows you to remotely control and program all the parameters of your Mitsubishi Variable Speed Drive, while also being able to view all current and historical data. The portal can be accessed on any Smartphone, PC or Tablet device from any location with an internet connection.

- BASIC** - Simple app only. (App access via portal)
- SCADA** - All the functionality of the BASIC package, but will then enable the remote SCADA polling.
- Low Resolution - 30 min poll times (App access via portal)
 - High Resolution - 5 min poll times (App access via portal)



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Online Portal Views



Live View

When you access the device page on the portal, it connects to that device's VSD and pulls current readings from the Adroit Modem. This enables you to view real-time data from the drive.

Historical View

Adroit modem pulls readings from the drive at set intervals, creating a series of graphs over time that are then saved for your future reference.

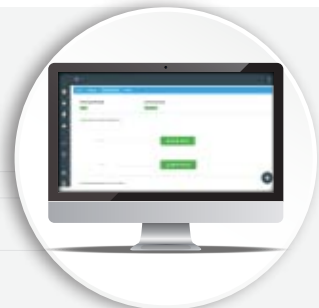


Remote Control View

Turn your VSD on and off or schedule future start/stop times.

Parameter Programming View

Remotely program and modify all VSD parameters to maximise efficiency.



Map View

This displays a live overhead satellite view of all your devices situated in one area, so you can quickly see which units are running in the field and which are not.



Drive is not running



Drive is running

Fault Notification View

When a fault in your drive occurs, the online portal will display an error notification so you know immediately when something is wrong. These error notifications will also be sent via e-mail and SMS so you are alerted even when you're not on the portal.

Furthermore, it gives you possible causes for the error so you can rectify it as quickly as possible.



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Online Portal Views

		2G Modem	LTE Modem
Wireless Parameters	Network		
	Standard	GSM / GPRS	FDD-LTE, TDD-LTE, HSPA+/WCDMA, GSM/GPRS/EDGE
	Transfer Rate	N/A	3GPP R10 CAT4 Downward 150 Mbps , Uplink 50 Mbps
		N/A	Downward 42 Mbps , Uplink 5. 76 Mbps
		14.4 Kbps ~ 57.6 Kbps	Downward 236. 8 kbps , Uplink 236. 8 kbps
		14.4 Kbps ~ 57.6 Kbps	Downward rate 85. 6 kbps Uplink rate 85. 6 kbps
	Standard Frequency Range	N/A	Band 1/2/3/5/7/8/20
		N/A	Band 38/40/41
		N/A	Band 1/2/5/8
		850/900/1800/1900MHz	Band 2/3/5/8
	GPRS Multi-slot Class	GPRS Class 10	GPRS Class 11
	GPRS Terminal Device Class	Class B	Class B
	GPRS Coding Schemes	CS1 ~ CS4	CS1 ~ CS4
	Max Launch Power	GSM900 class4 (2W), DCS1800 class1(1W)	GSM900 class4 (2W), DCS1800 class1(1W)
	Network Protocol	TCP, UDP, DNS, Http	TCP, UDP, DNS, Http
	Network Link Count	4	2
	Disconnection Buffer	4 x 15K bytes	5 x 15K bytes
	Network Receive Buffer	4K byte	4K byte

Serial	Serial		
	Number of Ports	1 xRS-232, 1 x RS-485, (can not work at the same time)	1 x RS-485
	Interface Standard	RS-232: DB9 cellular type, RS-485: 2 wire (A+, B-)	RS-485: 2 wire (A+, B-) RS485:2400bps - 230400bps
	Data Bit	5, 6, 7, 8	
	Stop Bit	1, 1.5, 2	1, 1.5, 3
	Check Bit	None, Even, Odd	None, Even, Odd
	Baud Rate	UART: 2400 bps ~ 921600 bps	UART: 2400 bps ~ 921600 bps
	Flow Control	RTS/CTS	RTS/CTS
	Receive Buffer	4K byte	4K byte
	RS-485 Pull-up and Pull-down Resistor	2.2 KΩ	2.2 KΩ

Device Interface			
Device Interface	Antenna Interface	50Ω/SMA-K (female terminal)	50Ω/SMA-K (female terminal)
	SIM Card	1.8V / 3V	

Software			
Software	Configuration	Serial AT command, network AT command, SMS AT command	Serial AT command, network AT command, SMS AT command

Basic Parameter			
Basic Parameter	Size (L x W x H)mm	80x 84 x 25	28 x 64.7 x 109.7
	Operating Temp.	-25 ~ 85°C	-30°C ~ 75°C
	Storage Temp.	-40 ~ 125°C	-40°C ~ 95°C
	Input Voltage	DC 5 ~ 36 V	DC 9 ~ 36V
	Working Current (@12V)	Average: 22 - 45mA Max: 201mA	Average: 84mA- 99mA Max: 233mA

Warranty			
Warranty	Period	2 years	2 years

Talk To Us

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