



# VDSmart Connect

*IoT Bridge for LS Drives (VFD)*



**!NEW!**

## The new VDSmart Connect Plug & Play IoT Bridge for LS Electric VFD

VDSmart Connect add the IoT functionality to your LS Electric VFD. It is a Plug&Play device with a visual interface that do not need configuration: Just connect it and start to remotely monitor and control your drive using a browser in your mobile or PC. The VDSmart can control up to 8 VFD showing their variables and draw them in a graph, log errors, start/stop every motor or adjust output setpoints.

Please contact us for more information:

[www.vectorenergy.com](http://www.vectorenergy.com)  
+34 935 748 206

[info@vectorenergy.com](mailto:info@vectorenergy.com)



## TECHNICAL SPECIFICATIONS

<b>Power supply</b>	Voltage	85 ... 264 Vac / 120 ... 300 Vcc / *9 ... 36 Vcc (opt.)
	Frequency	47 ... 63 Hz
	Power (ac / dc)	8,8 ... 10,5 VA / 6,4 ... 6,5 W
<b>Control Unit</b>	CPU	ESP32 Dual-core 32-bit 240 MHz
	PSRAM	8 Mb
	SPI Flash	16 Mb
	Clock	RTC with backup battery
<b>Wireless Interface</b>	Wi-Fi	802.11 b/g/n (2.4 GHz)
	GSM/GPRS	Quad-band (850 / 900 / 1800 / 1900 MHz)
<b>Serial Interface</b>	Type	RS-232 (full-duplex) / RS-485 (half-duplex)
	Speed	9600 ... 115200 bps
<b>Net interface</b>	Type	Ethernet
	Speed	10/100 Mbps
<b>Net Protocol</b>		MQTT
<b>User Interface</b>	Type	Web Server
	VFD Control	Start / Stop / Direction / Hz / PID
	VFD graph	V / A / Power / Hz / BUSDC / AI
	VFD Status	Run / Stop / Sleep / Error / Offline
	VFD error log file	100 Errors (Data, time, error text)
	VFD Monitoring	V / A / Power / Hz / BUSDC / DI / DO / AI / AO
<b>VFD Compatibility</b>	Type	LS G100/C, H100, S100, iS7
	Firmware	LS Standard, VMC
	Max. VFD's connected	8
	Communication Protocol	Modbus RTU
<b>Mechanical specifications</b>	Material	Polycarbonate UL94 - V0 self-extinguishable
	IP grade	IP20
	Weight	120 gr
	Dimensions	87,5 x 88,5 x 48 mm + External Antenna
	Connectors	Plug-in terminals. Cable cross section 1,5mm <sup>2</sup>
	Fixation	DIN rail 46277 (EN 50022)
<b>Electrical Installation</b>	Electrical Insulation	Class II
	Insulation	3kVac
	Overvoltage Category	CAT III 300V
<b>Environmental conditions</b>	Temperature range	-20 ... +50 °C
	Humidity range	5 ... 95 %
	Max. Height	2000 m
<b>Norms</b>		UNE EN 61010-1, UNE-EN 61000-6-2, UNE-EN 61000-6-4
<b>Certifications</b>		CE

### Supervise the key data of your drives

Connect to the VDSmart's WiFi or Ethernet cable using your mobile, tablet or PC. The VDSmart will instantly show the main variables in real time to easily monitor and graph the values and alarms of your LS H100, G100, S100 or iS7 drives. One single VDSmart can work with up to 8 combinations of those drives at the same time!



### Control your drives remotely!

Need to Reset the drive and Start again your motors remotely? Change the setpoint? No problem. The VDSmart has access with GPRS/GSM, Wifi or cable Ethernet connections.

### What happened with my drive? Check the logfile and data graphs

VDSmart has a logfile with the last alarms including the values that the drive had when the alarm triggered. Do you need details about your process? A detailed data graph perhaps? Adjust the data acquisition cycle time of the graph and you can record a set of data values every 1 second. Need more recording time and less detail? Increase the cycle time at your own and you will have hundreds of recording hours!

Time	Alarm Type	Status	Motor speed	Motor current	Motor voltage	DC link voltage
2023-11-09 11:35:40	External Trip	Running	20.00 Hz	0.20 A	65.00 V	320.90 V
2023-11-09 11:34:54	Safety A	Stopped	0.00 Hz	0.00 A	0.00 V	322.90 V