

Plug Pro series

Wi-Fi Plug Pro/GPRS Plug Pro/4G Plug Pro/NB-IOT Plug Pro

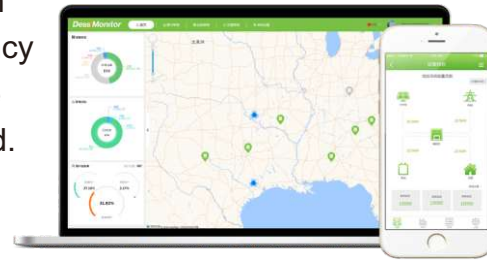
Plug Pro Series pluggable data logger can support Wi-Fi, GPRS, 4G, NB-IOT and other communication modes, through DB9, aviation head, RJ-45 and other terminal connection modes. Perfect compatibility with all brands of inverter, energy storage machine and other equipment. Support remote control, debugging, upgrading and other functions, and provide users with remote, low-cost, visual, remote operation monitoring scheme.



Energy storage industry application

Energy storage monitoring platform is a monitoring and management system for energy storage machine. The data of energy storage equipment is collected in all directions, analyzed with big data and processed with cloud platform technology. It can provide guidance for peak shaving, peak load regulation, frequency modulation and voltage regulation, so as to effectively smooth the power output and reduce the impact on the grid output as planned.

Real time monitoring, fault diagnosis, mobile payment, intelligent calculation, alarm reporting, peak cutting and valley filling.



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Features

Easy installation

- External pluggable, fixed with screw, plug and play.
- No external power needed, get the power directly from the equipments.
- 4 indicator lights, can view the working condition directly.

Data security

- Proprietary protocol, data verification, offline continuingly.
- Heartbeat detection, networking retry, automatic repair of equipment lost contact.

Good compatibility

- Compatible with a variety of brands of equipment.
- Support Wi-Fi, GPRS, 4G, NB-IOT and other communications.
- Support RS-485, RS-232, TTL and other local communications.
- Extend antenna is optional.

Easy maintenance

- Remote control, remote debugging, remote update.
- Support a variety of communication protocol automatic identification and switching.





Real-time monitoring

- Remote monitoring through the online-platform.
- View the data via APP, Wechat app and H5 embedded web page in real time.

Stable equipment

- Low-voltage protection+lighting protection, software watchdog+hardware watchdog.
- IP65, anti-ultraviolet aging, anti-UV, V0 antiflaming.
- Industrial-grade components, can work long under -30°C~+85°C.
- DC5~12V wide voltage design, built-in power anti-reverse connection function.

Technical Data

Product Model	Wi-Fi Plug Pro	GPRS Plug Pro	4G Plug Pro	NB-IOT Plug Pro
Product picture				
Essential parameters				
Dimensions	51*45*27mm	51*45*27mm	51*45*27mm	51*45*27mm
Weight	60g	60g	60g	60g
Protection class	IP65	IP65	IP65	IP65
Installation mode	Fixed to the equipment via screws	Fixed to the equipment via screws	Fixed to the equipment via screws	Fixed to the equipment via screws
Rated voltage	DC 5~12V	DC 5~12V	DC 5~12V	DC 5~12V
Maximum current	800mA(5V)	2A(5V)	2A(5V)	500mA(5V)
External port	Db9/Aviation joint/RJ-45	Db9/Aviation joint/RJ-45	Db9/Aviation joint/RJ-45	Db9/Aviation joint/RJ-45
Indicator lights	4	4	4	4
Operation temperature	-30°C~+85°C	-30°C~+85°C	-30°C~+85°C	-30°C~+85°C
Storage temperature	-40°C~+90°C	-40°C~+90°C	-40°C~+90°C	-40°C~+90°C
Communication parameters				
Local communication	RS-232/RS-485/TTL	RS-485/RS-232/TTL	RS-485/RS-232/TTL	RS-485/RS-232/TTL
Public network access	Wi-Fi	GPRS	GPRS/TD-SCDMA/WCDMA/LTE	NB-IOT
Baud rate	9600bps (default)	9600bps (default)	9600bps (default)	9600bps (default)
Working frequency	2.412GHz~2.484GHz	EGSM900/GSM880/DCS1800/PCS1900	FDD LTE:B1/B3/B8 TDD LTE:B38/B39/B40/B41 TDSCDMA:B34/B39 WCDMA:B1/B8 GSM:900/1800	Quad-Band FDD-LTE B1/B3/B5/B8
Communication standard	IEEE802.11b/g/n	GPRS multi-slot class 10 IS-95A/B IS-2000	LTE-Advanced/WirelessMAN-Advanced(802.16m)	3GPP R14
Maximum transmission rate	72Mbps	85.6Kbps	150Mbps	62.5Kbps
Communication distance	100m (open environment)	Carrier network	Carrier network	Carrier network
Antenna gain	2.7dBi	2.5dBi	2.5dBi	3dBi
Antenna	External antenna(extend antenna optional)	External antenna(extend antenna optional)	External antenna(extend antenna optional)	External antenna(extend antenna optional)
SIM card	--	Nano card or chip card	Nano card or chip card	Nano card or chip card
Other parameters				
Watchdog	Software watchdog+hardware watchdog	Software watchdog+hardware watchdog	Software watchdog+hardware watchdog	Software watchdog+hardware watchdog
Device layer communication protocol	Modbus-RTU	Modbus-RTU	Modbus-RTU	Modbus-RTU
Networking layer communication protocol	Modbus-TCP	Modbus-TCP	Modbus-TCP	Modbus-TCP
Parameters setting mode	Message/remote server	Message/remote server	Message/remote server	Remote server
Firmware update mode	Remote server	Remote server	Remote server	Remote server
Number of connected devices	1	1	1	1
Warranty	2 years	2 years	2 years	2 years
Certification	CE,RoHS	CE,RoHS	CE,RoHS	CE,RoHS