

[Features]

- IP66 waterproof enclosure is suitable for harsh environment which is moisture-resistant, heat-resistant and shock-resistant.
- Provide Web service, remote monitoring with browser .
- 3 Network interfaces: Be equipped with RJ-45, 4G(optional), and Wi-Fi(optional) .
- Alarm notify: SMS(optional) which is Chinese version and outage texting.
- Upgrade firmware with USB flash drive.
- Lightweight monitoring device: USB recording/texting/ 4G or NBloT/Power saving design
- It has a 0.96-inch color LCD screen, which can display on-site values, USB status and date.
- Be charged with solar panels.
- Obtain GPS signal.
- Detect battery voltage.
- Can measure solar charging voltage/charging current.
- Provide 5V or 12V or 24V power for the sensor(jumper choose one from three).
- Sleeping mode and setting scheduling.
- Cloud box can sequence the order of power supply: supply mains/ Solar energy/ battery .
- Can read 4G signal strength.



① ② ③ ④



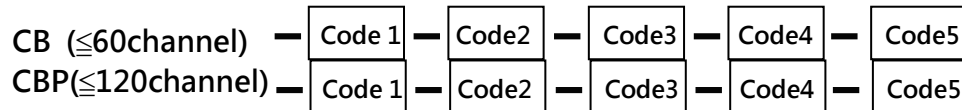
① ② ③ ④

- ① Power
- ② RS-485
- ③ RS-485
- ④ Network

[Applications]

Environmental monitoring, meteorological monitoring, independent monitoring station, flood monitoring, pollution monitoring, sewage plant, water plant

[Optional Code]



Code1	Network	Code 2	Communication	Code 3	Screen	Code 4	Power	Code5	output voltage
N	Ethernet	N	None	L	LCD display	Li	charging lithium battery	5	5V (< 8W)
		NB	NBLoT					12	12V (< 12W)
		4G	4G with built-in antenna				24	24V (< 12W)	
W	Wifi	4GO	4G with external antenna	C	Opaque cover	Pb	charging lead storage battery	VC12	12V+ power board (< 24W)
		GPS	4G+GPS					VC24	24V+ power board (< 24W)

[Specifications]

Power	Adapter	◆Input: AC 100-240V / Output : DC 12V maximum 2A current
	Equipment	◆ DC12 ~ 36V ◆ Power consumption : 6.2W
Environment	Operating temp	-20~70°C / 0 ~ 95%RH non-condensing (WiFi 0~70°C)
	Storage temp	-30~70°C
Communication	Ethernet interface	RJ-45 Ethernet with Web Service, Modbus TCP
	Communication interface	RS-485 X2 sets · Master and slave can be modified freely
	Communications Protocol	Modbus RTU / MQTT / Https
	Wireless communication	4G / NBloT / WIFI
	Signal input	Analog input points (AI*1, 4-20mA) / Digital input points (DI*2, It can do counting 200Hz)
	Signal output	The points of digital output (DO*1, 24V 1A It needs to connect to Relay)
Display panel	0.96 inch, TFT-LCD	
Physical conditions	Dimension (mm)	252 x 175 x 60 (W× H× D)
	Weight	<0.7kg
Housing	Material	PC + Anti-UV
Ingress Protection Rating	IP68	
Record	USB flash drive record · maximum to 64GB	
Certificate	CE ,FCC	
Patent	R.O.C. Patent No M429156 / M474956 / M594326 China Patent No. 2514208 / 3968342	

[Dimension] mm

