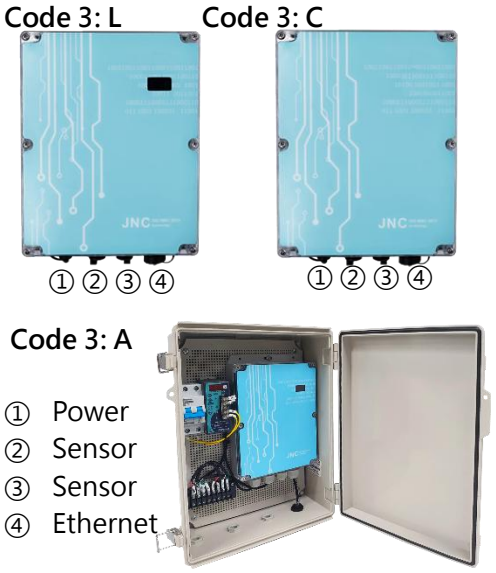
JNC 網頁型智能記錄傳輸系統 Cloud Box Embedded Edge AI

CB

[Features]



- Edge Computing (Embedded Edge AI): PAC (Programmable Automation Controller) architecture with offline standalone control.
- Seamless JNC SCADA Integration: transparent read/write; remote CB setup from SCADA.
- Built-in web interface for remote setup via browser.
- IP68 (CNS 14165); resists humidity, heat and vibration.
- Optional Chinese SMS alerts, incl. power failure.
- Worldwide software updates via email.
- RJ-45, 4G (optional) and Wi-Fi (optional) networking.
- Real-time 4G signal strength; optional GPS positioning.
- Local data buffering; auto re-upload on reconnection.
- Auto mains/solar/battery switchover and sleep mode.
- Solar charging with battery/charge monitoring.
- 0.96-inch color LCD: live readings, USB status, date/time.
- Jumper-selectable 5V / 12V / 24V sensor power output.
- Calculates River Pollution Index (RPI) and Aquaculture Water Quality Index (AQUA.WQI) from the installed water quality sensors.

[Applications]

Environment, weather, flood & pollution monitoring, standalone stations, water & wastewater plants.

[Model Selection]

CB-Code 1-Code 2-Code 3-Code 4-Code 5-Code 6

Code 1	Network	Code 2	SIM Comm.	Code 3	Enclosure	Code 4	Power	Code 5	Output Voltage	Code 6	Connector
N	Ethernet	N	None	L	PCW175 Clear lid (with LCD)	Li	For Li-ion charging	N	No power from CB	N	Cable gland
		NB	NB-IoT								
		4G	4G (int. antenna)					5	5V (<16W)		
		4GO	4G (ext. antenna)	C	PCW175 Opaque lid (no LCD)						
W	Wifi	4GV	4G (int. antenna) + video			Pb	For lead-acid charging	12	12V (<24W)	C	Quick connector
		4GVO	4G (ext. antenna) + video								
		GPS	4G (int. antenna) + GPS	A	Extra enclosure panel required			24	24V (<24W)		
		GPSO	4G (ext. antenna) + GPS								

※If Code 3 = "A", Code 5 must be "N" and the CBA waterproof enclosure kit is required.

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[CB Waterproof Enclosure Kit] CBA-Code 1-Code 2

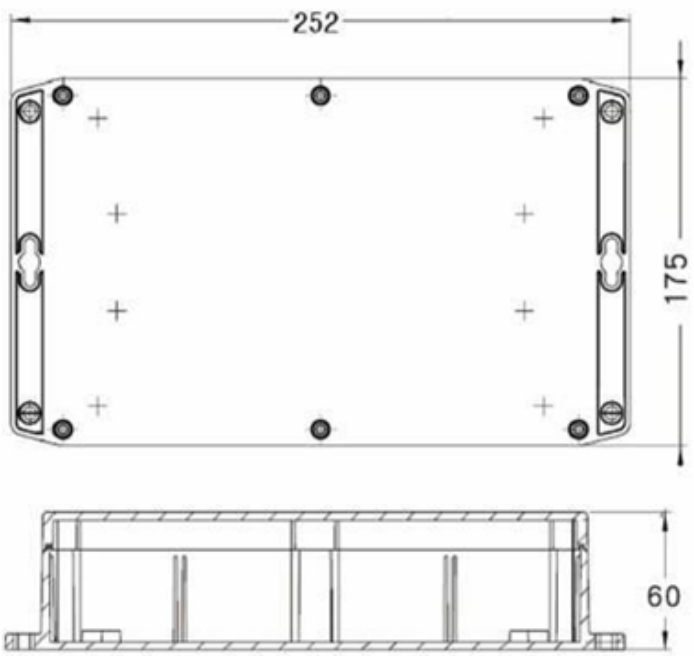
Code 1	Application	Code 2	Power Supply
400	Outdoor multi-sensor hub wired back to CB	12V	DC12V/50W
1Relay	1. 1 wet-contact output (Relay) 2. For single-zone irrigation projects		
3Relay	1. 1 wet-contact output (Relay) 2. 2 dry-contact outputs (Relay) 3. 2 dry-contact inputs (DI) 4. For vehicle-exit IR sensing and traffic-light control	24V	DC24V/50W
Solar	For use with solar panel (no power supply or fuse switch)		

[Specifications]

Power	◆DC12~36V ◆Power consumption: ≤3.6W		
Environment	Operating temp.	-20℃~80℃ (-4℉~176℉), (WiFi 0~80℃)	
	Storage temp.	-20℃~80℃ (-4℉~176℉)	
	Relative humidity	0~95 % RH non-condensing	
Communication	LAN interface	RJ-45 Ethernet, Modbus TCP protocol	
	LAN functions	Web Service, standard Modbus, HTTP and MQTT upload	
	Serial interface	RS-485 ×2, configurable as Master/Slave	
	Protocol	Standard Modbus protocol	
	4G functions	Alarm ringing and SMS, HTTP(S) upload, MQTT(S) upload	
Signal I/O	Analog input (AI)	4-20 mA*1	
	Digital input (DI)	DI×2, switch counting up to 200 Hz	
	Digital out (DO)	Dry contact ×1, DC24V 1A, external relay required	
Display	0.96-inch alphanumeric color TFT-LCD		
Physical	Code 3 option	L, C	A
	Dimensions (mm)	252 x 175 x 60 (W×H×D)	300*400*190(W×H×D)
	Weight	<0.7kg	<3.5kg
Enclosure	Material	PC + UV-resistant	ABS
	IP rating	IP68 (CNS 14165)	
Data logging	USB logging, up to 32 GB (FAT32); CSV files open directly in Excel Over 10 years at 120 channels, 1 record per minute		
Certifications	EU CE (EMC, LVD: IEC/EN 62368-1) and US FCC certified		
Patents	Taiwan (R.O.C.) Patent No. M429156 / M474956 / M594326 China Patent No. 2514208 / 3968342		
Origin	Taiwan		

[Dimensions] Unit: mm

Code 3: L, C



Code 3: A

