

## [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 enclosure; 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.
- 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.

Code 3: L



Code 3: C



Code 3: A

- ① Power
- ② Sensor
- ③ Sensor
- ④ Ethernet



Per CBA option

**[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                    |        |                             |        |                        | 5      | 5V (<16W)        |        |                 |
|        |          | 4G     | 4G (int. antenna)         |        |                             |        |                        | 12     | 12V (<24W)       |        |                 |
|        |          | 4GO    | 4G (ext. antenna)         |        |                             |        |                        | 24     | 24V (<24W)       |        |                 |
| W      | Wifi     | 4GV    | 4G (int. antenna) + video | C      | PCW175 Opaque lid (no LCD)  | Pb     | For lead-acid charging | 12     | 12V (<24W)       | C      | Quick connector |
|        |          | 4GVO   | 4G (ext. antenna) + video |        |                             |        |                        | 24     | 24V (<24W)       |        |                 |
|        |          | GPS    | 4G (int. antenna) + GPS   |        |                             |        |                        | 24     | 24V (<24W)       |        |                 |
|        |          | GPSO   | 4G (ext. antenna) + GPS   |        |                             |        |                        | 24     | 24V (<24W)       |        |                 |

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

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

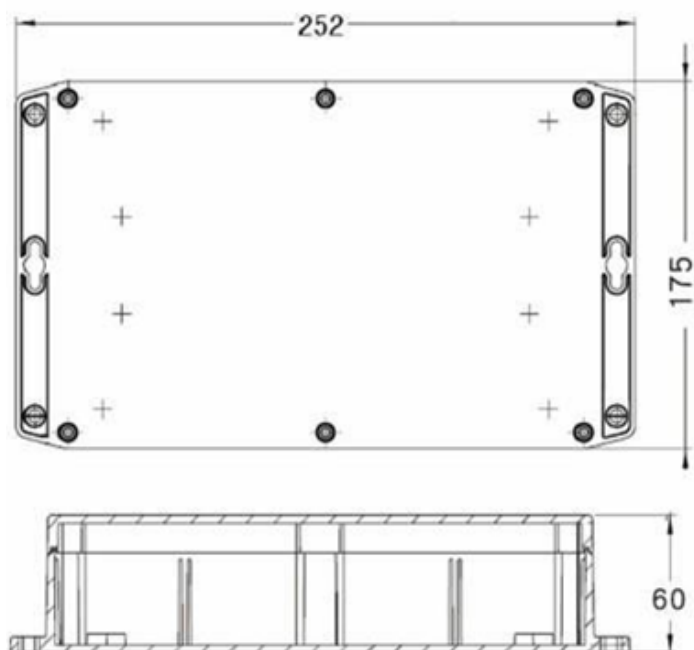
| Code 1 | Application                                                                                                                                                     | Code 2 | Power Supply |
|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------|
| 400    | Outdoor multi-sensor hub wired back to CB                                                                                                                       | 12V    | DC12V/50W    |
| 1Relay | 1. 1 wet-contact output (Relay)<br>2. For single-zone irrigation projects                                                                                       |        |              |
| 3Relay | 1. 1 wet-contact output (Relay)<br>2. 2 dry-contact outputs (Relay)<br>3. 2 dry-contact inputs (DI)<br>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<br>♦Power consumption: ≤3.6W                                                       |                                                       |                    |
| Environment    | Operating temp.                                                                              | -20℃~70℃ (-4°F~158°F), (WiFi 0~70℃)                   |                    |
|                | Storage temp.                                                                                | -20℃~70℃ (-4°F~158°F)                                 |                    |
|                | 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                                                  |                    |
| Data logging   | USB logging, up to 64 GB (FAT32)                                                             |                                                       |                    |
| Certifications | EU CE (EMC, LVD: IEC/EN 62368-1) and US FCC certified                                        |                                                       |                    |
| Patents        | Taiwan (R.O.C.) Patent No. M429156 / M474956 / M594326<br>China Patent No. 2514208 / 3968342 |                                                       |                    |

## [Dimensions] Unit: mm

Code 3: L, C



Code 3: A

