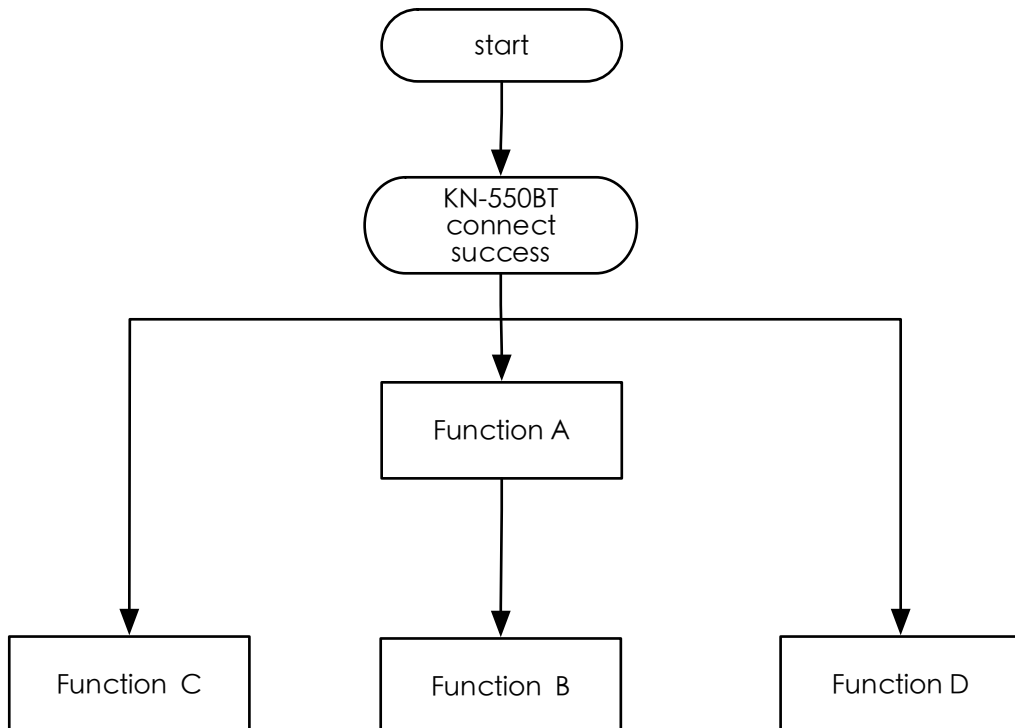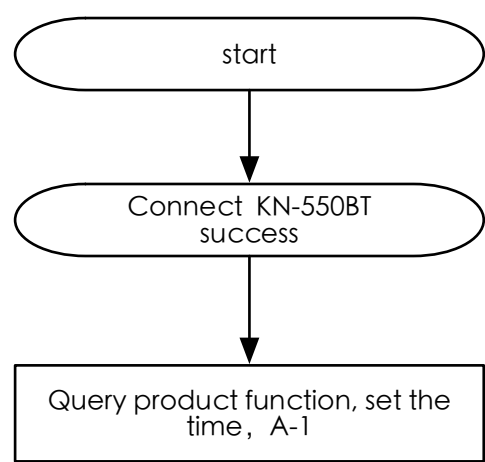# KN-550BT Function

Note: Api call must be serial call, that is, after the end of a Api, you can call the next Api, otherwise it will appear Api function failure.

```
                  ┌─────────────┐
                  │    start    │
                  └─────────────┘
                         │
                         ▼
                  ┌─────────────┐
                  │  KN-550BT   │
                  │   connect   │
                  │   success   │
                  └─────────────┘
                         │
        ┌────────────────┼────────────────┐
        │                ▼                 │
        │         ┌─────────────┐          │
        │         │ Function A  │          │
        │         └─────────────┘          │
        │                │                 │
        ▼                ▼                 ▼
┌─────────────┐  ┌─────────────┐  ┌─────────────┐
│ Function  C │  │ Function  B │  │ Function D  │
└─────────────┘  └─────────────┘  └─────────────┘
```
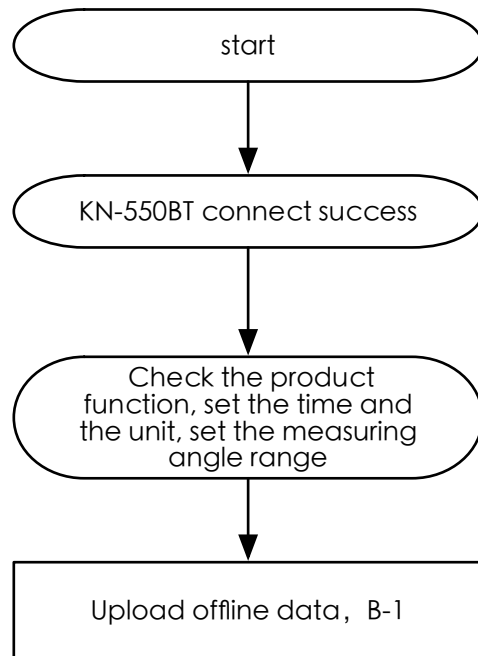
KN-550BT Function A – Setting Before Offline Measurement

Note: KN–550BT (A–1) must be called before using the offline measurement function of Api, otherwise the time of the off–line data may be incorrect.

```
        ┌─────────────────────────┐
        │          start          │
        └─────────────────────────┘
                     │
                     ▼
        ┌─────────────────────────┐
        │   Connect  KN-550BT     │
        │        success          │
        └─────────────────────────┘
                     │
                     ▼
        ┌─────────────────────────┐
        │ Query product function, set the │
        │        time，A-1        │
        └─────────────────────────┘
```

A-1: commandFounction: errorBlock:

KN-550BT Function B – Upload Offline Data

```
            ┌─────────────────────────────┐
            │            start            │
            └─────────────────────────────┘
                           │
                           ▼
            ┌─────────────────────────────┐
            │   KN-550BT connect success  │
            └─────────────────────────────┘
                           │
                           ▼
            ┌─────────────────────────────┐
            │      Check the product      │
            │  function, set the time and │
            │  the unit, set the measuring│
            │         angle range         │
            └─────────────────────────────┘
                           │
                           ▼
            ┌─────────────────────────────┐
            │   Upload offline data,  B-1 │
            └─────────────────────────────┘
```

B-1: commandTransferMemoryDataWithUser: clientID:

KN-550BT Function C –Query Functions

```
                        ┌──────────────┐
                        │    start     │
                        └──────────────┘
                               │
                               ▼
                     ╭──────────────────╮
          ┌──────────│    KN-550BT      │──────────┐
          │          │     connect      │          │
          │          │     success      │          │
          │          ╰──────────────────╯          │
          ▼                                         ▼
  ┌─────────────────┐                     ┌─────────────────┐
  │  Query product  │                     │  Query energy,  │
  │    function     │                     │      C-2        │
  │ information, C-1 │                     │                 │
  └─────────────────┘                     └─────────────────┘
```
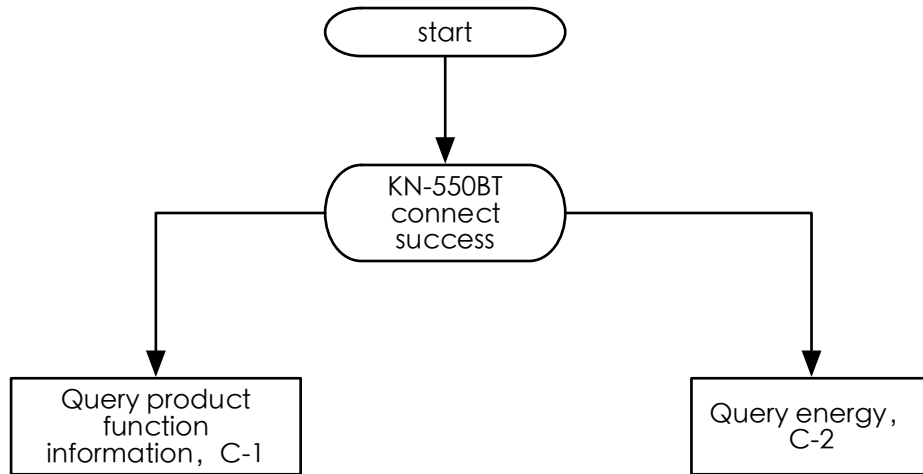
C-1: commandFounction: errorBlock:

C-2: commandEnergy: errorBlock:

KN-550BT Function D –Disconnect Device

```
        ┌─────────────────────────────┐
        │           start             │
        └─────────────────────────────┘
                      │
                      ▼
        ┌─────────────────────────────┐
        │   Connect device success    │
        └─────────────────────────────┘
                      │
                      ▼
        ┌─────────────────────────────┐
        │   Disconnect device,  D-1   │
        └─────────────────────────────┘
                      │
                      ▼
        ┌─────────────────────────────┐
        │            end              │
        └─────────────────────────────┘
```
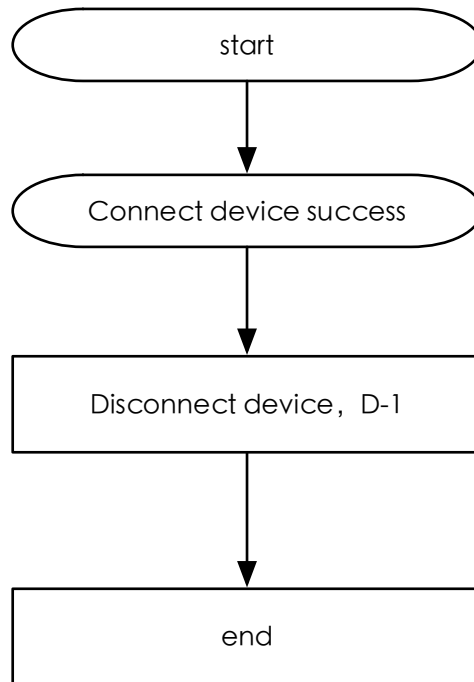
D-1：commandDisconnectDevice