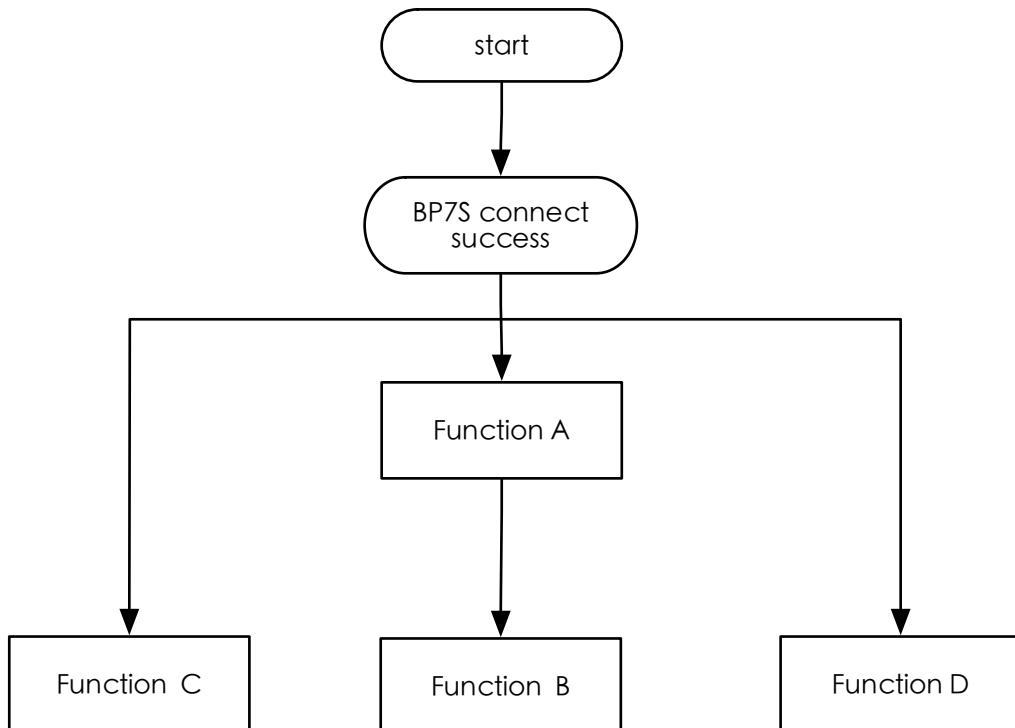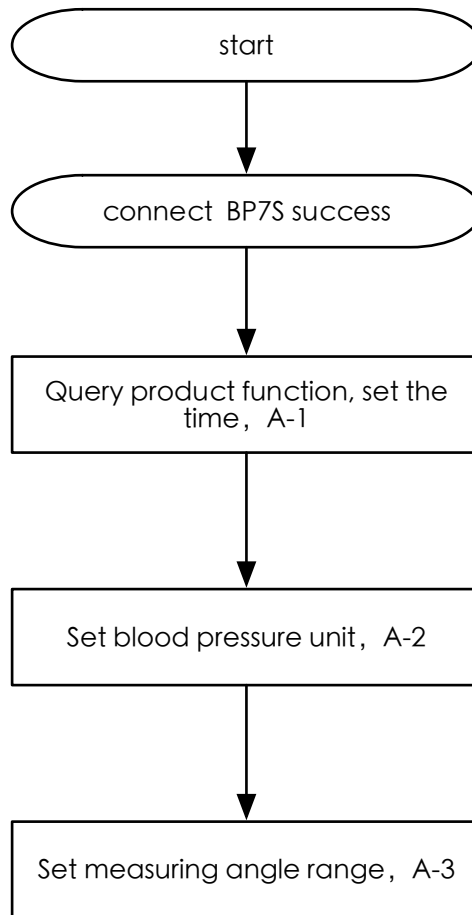# BP7S Function

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
          |
          v
   BP7S connect
     success
          |
   _____
  |          |                |
  v          v                v
Function  Function         Function
   C         B                D
          (Function A)
```

BP7S Function A – Setting Before Offline Measurement

Note: BP7S (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  BP7S success │
            ╰─────────────────────╯
                      │
                      ▼
            ┌─────────────────────┐
            │ Query product function, set the │
            │        time，A-1      │
            └─────────────────────┘
                      │
                      ▼
            ┌─────────────────────┐
            │ Set blood pressure unit，A-2 │
            └─────────────────────┘
                      │
                      ▼
            ┌─────────────────────┐
            │ Set measuring angle range，A-3 │
            └─────────────────────┘
```
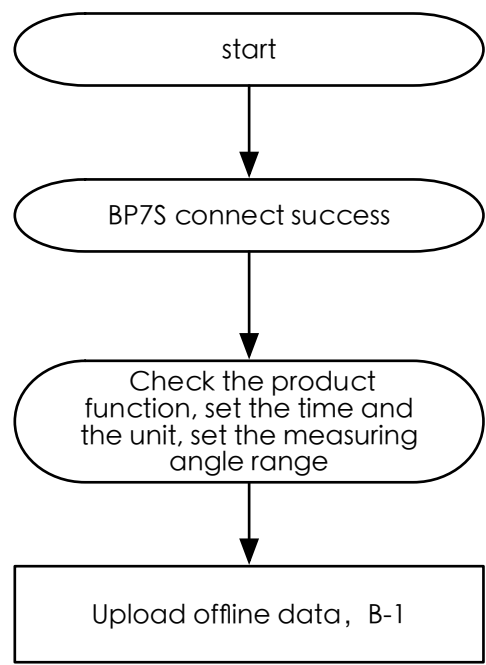
A-1：commandFounction: errorBlock:

A-2：commandSetUnit: errorBlock:

A-3：commandSetAngle: errorBlock:

BP7S Function B – Upload Offline Data

```
        ┌─────────────────────────┐
        │          start          │
        └─────────────────────────┘
                     │
                     ▼
        ┌─────────────────────────┐
        │   BP7S 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:

BP7S Function C –Query Function

```
            ┌──────────────┐
            │    start     │
            └──────┬───────┘
                   │
                   ▼
            ┌──────────────┐
   ┌────────┤     BP7S     ├────────┐
   │        │   connect    │        │
   │        │   success    │        │
   │        └──────────────┘        │
   ▼                                ▼
┌──────────────────┐      ┌──────────────────┐
│  Query product   │      │  Query energy,   │
│    function      │      │       C-2        │
│ information, C-1 │      │                  │
└──────────────────┘      └──────────────────┘
```
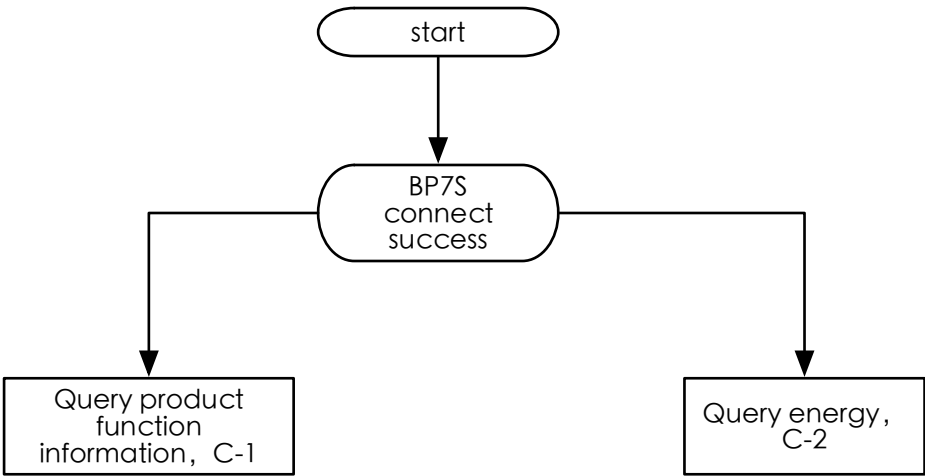
C-1: commandFounction: errorBlock:

C-2: commandEnergy: errorBlock:

BP7S Function D –Disconnect Device

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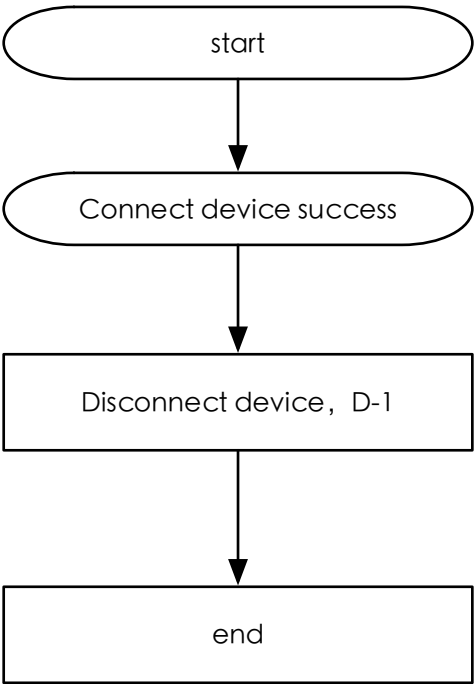
D-1: commandDisconnectDevice