

# Syrup COFE+SYR62112 Product instruction V1.0

## 1.POWER

Rated voltage:DC24V

## 2.CONTROL



6 peristaltic pumps are controlled by control board in syrup box through RS485.

## 3. Communication protocol is as follows:

| content | Data header | Send type | Receive type | Instruct ID | Data length | Data send | Reserved | check  | Data tail |
|---------|-------------|-----------|--------------|-------------|-------------|-----------|----------|--------|-----------|
| length  | 3 byte      | 1 byte    | 1 byte       | 1 byte      | 1 byte      | n byte    | 3 byte   | 1 byte | 2 byte    |

Data header: 0x55 0xAA 0x08

Instruct ID: 1: query, 2: answer, 3: do, 5: registration

Reserved: 0x00 0x1A 0x1A

check: crc

Data tail: 0x5A 0xA5

Module type: syrup 3

## 4.Example

1) send

| byte | data  |
|------|---|
| 1    | Execution type: 0x03 pump syrup                                     |
| 2    | Syrup no.: low 4 bits correspond to syrup no.; high 4 bits reserved |
| 3    | Syrup weight: syrup weight  |

example:

55 AA 08 01 03 03 03 03 01 01 00 1A 1A xx 5A A5

receive

| byte | data                                      |
|------|---|
| 1    | receive type: 0 received; 1 query receive |

Example:

55 AA 08 03 01 02 01 00 00 1A 1A 42 5A A5

2) query syrup information

| byte | data  |
|------|---|
| 1    | Query type: 1 progress query; 2 query parameter |

example:

55 AA 08 01 01 01 01 00 1A 1A xx 5A A5

receive (progress query)

| byte | data             |
|------|------------------|
| 1    | Query receive: 1 |
| 2    | Execution: 1     |
| 3    | 2                |
| 4    | Reserved         |
| 5    | Reserved         |
| 6    | Reserved         |
| 7    | Reserved         |
| 8    | Reserved         |
| 9    | Reserved         |
| 10   | Reserved         |
| 11   | Reserved         |
| 12   | Reserved         |
| 13   | Reserved         |
| 14   | Reserved         |
| 15   | Reserved         |
| 16   | Reserved         |
| 17   | Reserved         |
| 18   | Reserved         |
| 19   | Reserved         |
| 20   | Reserved         |
| 21   | Reserved         |
| 22   | Reserved         |
| 23   | 20               |

|    |  |
|----|--|
| 24 | Syrup no.1: 0 no execution, 1 unfinished, 2 finished ,3 error, 4 reset |
| 25 | 21   |
| 26 | Syrup no.2: 0 no execution, 1 unfinished, 2 finished ,3 error, 4 reset |
| 27 | 22   |
| 28 | Syrup no.3: 0 no execution, 1 unfinished, 2 finished ,3 error, 4 reset |
| 29 | 23   |
| 30 | Syrup no.4: 0 no execution, 1 unfinished, 2 finished ,3 error, 4 reset |
| 31 | reserved   |
| 32 | reserved   |
| 33 | reserved   |
| 34 | reserved   |

receive (query parameter)

| 字节 | 数据                  |
|----|---------------------|
| 1  | Query receive: 1    |
| 2  | Module parameter: 2 |
| 3  | 2                   |
| 4  | reserved            |
| 5  | reserved            |
| 6  | reserved            |
| 7  | reserved            |
| 8  | reserved            |
| 9  | reserved            |
| 10 | reserved            |
| 11 | reserved            |
| 12 | reserved            |
| 13 | reserved            |
| 14 | reserved            |
| 15 | reserved            |
| 16 | reserved            |
| 17 | reserved            |
| 18 | reserved            |
| 19 | reserved            |
| 20 | reserved            |
| 21 | reserved            |
| 22 | reserved            |
| 23 | reserved            |
| 24 | reserved            |
| 25 | reserved            |
| 26 | reserved            |
| 27 | reserved            |
| 28 | 20                  |

|    |                                      |
|----|--------------------------------------|
| 29 | syrup pump 1 execution time          |
| 30 | syrup pump 1 execution time/ seconds |
| 31 | syrup pump 1 wait time               |
| 32 | 21                                   |
| 33 | syrup pump 2 execution time          |
| 34 | syrup pump 2 execution time/ seconds |
| 35 | syrup pump 2 wait time               |
| 36 | 22                                   |
| 37 | syrup pump 3 execution time          |
| 38 | syrup pump 3 execution time/ seconds |
| 39 | syrup pump 3 wait time               |
| 40 | 23                                   |
| 41 | syrup pump 4 execution time          |
| 42 | syrup pump 4 execution time/ seconds |
| 43 | syrup pump 4 wait time               |
| 44 | reserved                             |
| 45 | reserved                             |
| 46 | reserved                             |
| 47 | reserved                             |
| 48 | reserved                             |
| 49 | reserved                             |
| 50 | reserved                             |
| 51 | reserved                             |