

Support Cluster

| Cluster | Name |
|---------|----------------------------------|
| 0x0000 | Basic |
| 0x0002 | Device Temperature configuration |
| 0x0003 | Identify |
| 0x0006 | On/off |
| 0x0019 | OTA |
| 0x0B04 | Electrical Measurment |
| 0x0702 | Simple Metering |
| 0x0402 | Temperture Measurement |
| 0x04E0 | 730 Private Configura |

Cluster Support Attribute Basic

| Attribute Id | Attribute Name | Attribute Default Value |
|--------------|---------------------|-------------------------|
| 0x0000 | Zcl Version | 0x08 |
| 0x0001 | Application Version | 0x00 |
| 0x0002 | Stack Version | 0x00 |
| 0x0003 | Hardwark Version | 0x00 |
| 0x0004 | Manufacturer Name | RedBox |
| 0x0005 | Model Identifier | MeterSmartPlug |
| 0x0006 | Date Code | 20220610 |
| 0x0007 | Power Source | 0x01 |
| 0x4000 | Sw Build Id | 1.00 |
| 0xFFFFD | Cluster Revision | 3 |
| 0xFFFFE | Report Status | NULL |

Device Temperature configuration

| Attribute Id | Attribute Name | Attribute Default Value | Data type | Value Declaration |
|--------------|------------------------|-------------------------|-----------|----------------------------------------------------------------------------|
| 0x0000 | Current temperature | 0x8000 | INT16S | Device internal temp. -20 ~ 120 |
| 0x0010 | device temp alarm mask | 0x00 | BITMAP8 | Bit0: Alarm if temp. low , Bit1: Alarm if temp.high |
| 0x0011 | low temp threshold | -10 | INT16S | means low or equal to -10°, Device will alarm(temp.>= -5°C Disalarm) |
| 0x0012 | high temp threshold | 110 | INT16S | means over or equal to 110°, Device will alarm (temp. <= 85°C Disalarm) |

Identify

| Attribute Id | Attribute Name | Attribute Default Value |
|--------------|------------------|-------------------------|
| 0x0000 | Identify | 0x00 |
| 0xFFFFD | Cluster Revision | 2 |

On/off

| Attribute Id | Attribute Name | Attribute Default Value |
|--------------|------------------|-------------------------|
| 0x0000 | On/off | 0 |
| 0x4001 | On time | 0 |
| 0x4002 | off wait time | 0 |
| 0xFFFFD | Cluster Revision | 2 |

Over the Air Bootloading

Electrical Measurement

| Attribute Id | Attribute Name | Attribute Default Value | Data Type | Value Declaration |
|--------------|-----------------------|-------------------------|-----------|-------------------|
| 0x0300 | Ac Frequency | 50 | | |
| 0x0301 | Ac Frequency Min | 50 | | |
| 0x0302 | Ac Frequency Max | 60 | | |
| 0x0505 | Rms Voltage | 0 | | |
| 0x0506 | Rms Voltage Min | 1800 | | |
| 0x0507 | Rms Voltage Max | 2500 | | |
| 0x0508 | Rms Current | 0 | | |
| 0x0509 | Rms Current Min | 10 | | |
| 0x050A | Rms Current Max | 30000 | | |
| 0x050B | Active Power | 0 | | |
| 0x050C | Active Power Min | 1 | | |
| 0x050D | Active Power Max | 60000 | | |
| 0x0600 | Ac Voltage Multiplier | 1 | | |

| Attribute Id | Attribute Name | Attribute Default Value | Data Type | Value Declaration |
|---------------------|--------------------------|--------------------------------|------------------|------------------------------------------------------|
| 0x0601 | Ac Voltage Divisor | 10 | | |
| 0x0602 | Ac Current Multiplier | 1 | | |
| 0x0603 | Ac Current Divisor | 1000 | | |
| 0x0604 | Ac Power Multiplier | 1 | | |
| 0x0605 | Ac Power Divisor | 1 | | |
| 0x0800 | ac overload alarm mask | 0x00 | BITMAP16 | Bit0: Over-voltage alarm Bit1: Over-current alarm |
| 0x0801 | Ac Voltage Overload | 2500 | | |
| 0x0802 | Ac Current Overload | 16000 | | |
| 0x0803 | Ac active Power Overload | 30000 | | |
| 0xFFFFD | Cluster Revision | 3 | | |

Simple Metering

| Attribute Id | Attribute Name | Attribute Default Value |
|---------------------|-----------------------------|--------------------------------|
| 0x0000 | Current Summation Delivered | 0x00 |
| 0x0301 | Status | 0x00 |
| 0x0302 | unit of measure | 0 |

| Attribute Id | Attribute Name | Attribute Default Value |
|---------------------|-----------------------|--------------------------------|
| 0x0505 | multiplier | 1 |
| 0x0506 | divisor | 1000 |
| 0x0507 | summation formatting | 0x03 |
| 0x0508 | metering device type | 0 |
| 0xFFFFD | Cluster Revision | 3 |

Temperature Measurement

| Attribute Id | Attribute Name | Data Type | Attribute Default Value |
|---------------------|-----------------------|------------------|--------------------------------|
| 0x0000 | measured value | INT16S | 0x8000 |
| 0x0001 | min measured value | INT16S | -100 |
| 0x0002 | max measured value | INT16S | 1100 |
| 0xFFFFD | Cluster Revision | 3 | |

730 Private Configuration

| Attribute Id | Attribute Name | Data Type | Attribute Default Value |
|---------------------|-----------------------------|------------------|--------------------------------|
| 0x0000 | measured value 2 | INT16S | 0x8000 |
| 0x0001 | NTC1 value range (0 - 5) | ENUM8 | 0x00 |
| 0x0002 | NTC2 value range (0 - 5) | ENUM8 | 0x00 |
| 0x0003 | water sensor value | BOOLEAN | 0x00 |
| 0x0004 | NTC1 Calibration (-10 - 10) | INT8S | 0x00 |

| Attribute Id | Attribute Name | Data Type | Attribute Default Value |
|--------------|----------------------------------------------------------|-----------|-------------------------|
| 0x0005 | NTC2 Calibration (-10 - 10) | INT8S | 0x00 |
| 0x0006 | Water alarm Relay Action 0x00 remain , 0x01 relay off | ENUM8 | 0x00 |
| 0x0007 | NTC1 Action Select 0x00 No action | ENUM8 | 0x00 |
| 0x0008 | NTC2 Action Select 0x00 No action | ENUM8 | 0x00 |
| 0x0009 | NTC1 Auto Temp | INT16S | 300 |
| 0x000A | NTC2 Auto Temp | INT16S | 300 |
| 0x000B | Override Option | ENUM8 | 0 |
| 0x000C | NTC1 Temp Hysteresis | INT8S | (-10 - 10) |
| 0x000D | NTC2 Temp Hysteresis | INT8S | (-10 - 10) |
| 0x000E | Water Condition Alarm | BOOLEAN | false/true |
| 0x000F | NTC Condition Alarm | BOOLEAN | false/true |

730 Private Configura Command

| Command Id | Command Name |
|------------|-------------------------|
| 0x00 | Clear Auto Trigger Flag |