

Generic String and Integer Key/Value Device Model

DeviceType: tmaKeyValue

Model: V01

ManufacturerId: TMAKeyValue

ManufacturerName: TMAKeyValue

Protokoll: CoAP

Device-Model

ServiceName: StringData

```
Attributes
  StringKey (length 20)
  StringValue (length 200)
Commands
  Request
    StringParamKey (length 20)
    StringParamValue (length 200)
  Response
    StringResponse (length 200)
```

ServiceName: IntData

```
Attributes
  IntKey (string/length 20)
  IntValue (int)
Commands
  Request
    IntParamKey (string/length 20)
    IntParamValue (int)
  Response
    IntResponse (int)
```

CIG Plugin

Data Reports (Device to ALLIoT)

***Message ID: 00 *** StringData

```
00<KEY_LEN><KEY><VALUE_LEN><STRING_VALUE>
```

Response:

```
AA00
```

Message ID 01 IntData

```
01<KEY_LEN><KEY><INT_VALUE>
```

Response

```
AA01
```

Commands (ALLIoT to Device)

Command: StringCmd

Message ID 02 Request:

```
02<KEY_LEN><KEY><VALUE_LEN><STRING_VALUE><MID>
```

Message ID 04 Response:

```
04<ERRCODE><MID><STRING_RESPONSE>
```

Command IntCmd**Message ID 03** Request

```
03<KEY_LEN><KEY><INT_VALUE><MID>
```

Message ID 05 Response

```
05<ERRCODE><MID><INT_RESPONSE>
```

Parameter

Name	Type	Len [Byte]	Description
KEY_LEN	int8u	1	
KEY	String	0...200	
VALUE_LEN	Int8u	1	
STRING_VALUE	String	0...200	
INT_VALUE	Int16s	2	
ERRCODE	Int8u	1	00 Success, 01 Error
MID	Int16u	2	Command Identifier for Request/Response
STRING_RESPONSE	String	0..200	
INT_RESPONSE	Int16s	2	

Examples

Ascii to Hex Converter: <https://www.binaryhexconverter.com/ascii-text-to-hex-converter>

Send Data (Device to ALLIoT)

Send String Message

Key=City (Hex: 43697479 / 4 Byte) Value=Wattens (Hex: 57617474656e73 / 7 Byte)

Commando	Length	Message_ID	Key_len	Key	value_len	value
AT+NMGS=	14,	00	04	43697479	07	57617474656e73

```
AT+NMGS=14,"0004436974790757617474656e73"
```

Send Json String

Key=SensorData Value={"Temp":22.3,"Hum":20,"Weight":23}

Commando	Length	Message_ID	Key_len	Key	value_len	value
AT+NMGS=	47,	00	0A	53656e736f7244617461	33	3a32322e332c2248756d223a32302c22576569676874223a32337d"

```
AT+NMGS=47,"000A53656e736f7244617461227b2254656d70223a32322e332c2248756d223a32302c22576569676874223a32337d"
```

Send IntData

Key=Temp (hex: 010454656d7 / 4 Byte) Value=22.3 °C / raw 223

Commando	Length	Message_ID	Key_len	Key	value
AT+NMGS=	08,	01	04	010454656d7	00DF

```
AT+NMGS=8,"010454656d7000DF"
```