

Smart Home Sensors RESTful API Reference

Base URL

```
https://api.smarthome.example.com/v1
```

Authentication

All endpoints require the following header:

```
Authorization: Bearer your_api_token
```

Endpoints

List Sensors

```
GET /sensors
```

Returns a list of all smart home sensors.

Query Parameters	Type	Description
type	string	Filter by sensor type (e.g., temperature, motion).

Response Example:

```
{
  "sensors": [
    {
      "id": "123",
      "name": "Living Room Motion",
      "type": "motion",
      "location": "Living Room",
      "status": "active"
    }
  ]
}
```

Get Sensor Details

```
GET /sensors/{id}
```

Get details for a specific sensor.

URL Parameter	Type	Description
id	string	Sensor unique identifier

Response Example:

```
{
  "id": "123",
  "name": "Living Room Motion",
  "type": "motion",
  "location": "Living Room",
  "status": "active",
  "lastActivity": "2024-06-21T13:23:45Z"
}
```

Create Sensor

POST /sensors

Add a new sensor to your smart home system.

Request Body:

```
{
  "name": "Bedroom Temperature",
  "type": "temperature",
  "location": "Bedroom"
}
```

Response Example:

```
{
  "id": "456",
  "name": "Bedroom Temperature",
  "type": "temperature",
  "location": "Bedroom",
  "status": "inactive"
}
```

Update Sensor

PUT /sensors/{id}

Update sensor information.

Request Body Example:

```
{
  "name": "Bedroom Temperature",
  "location": "Master Bedroom"
}
```

Response Example:

```
{
  "id": "456",
  "name": "Bedroom Temperature",
  "type": "temperature",
  "location": "Master Bedroom",
  "status": "inactive"
}
```

Delete Sensor

```
DELETE /sensors/{id}
```

Remove a sensor from the system.

Response Example:

```
{
  "deleted": true
}
```

Sensor Types

- motion
- temperature
- humidity
- door
- window

Status Codes

Code	Description
200	Success
201	Created
400	Bad request
401	Unauthorized
404	Not found
500	Server error