

Sensor schema

(Work in progress)

Sensor schema

```
{
  "definitions": {},
  "$schema": "http://json-schema.org/draft-07/schema#",
  "$id": "https://greatlakestogulf.org/geostreams/sensor.json",
  "type": "object",
  "title": "Sensor Schema",
  "description": "",
  "required": [
    "name",
    "geoType",
    "geometry",
    "properties",
    "parameters"
  ],
  "properties": {
    "name": {
      "$id": "#/properties/name",
      "type": "string",
      "title": "The Name Schema",
      "description": "Name of sensor provided by source. If no name is provided by the source, naming convention applied in parser.",
      "default": "",
      "examples": [
        "03254520"
      ],
      "pattern": "^(.*)$"
    },
    "created": {
      "$id": "#/properties/created",
      "type": "string",
      "title": "The Created Schema",
      "description": "",
      "default": "",
      "examples": [
        "2018-03-23T15:48:32Z"
      ],
      "pattern": "^(.*)$"
    },
    "geoType": {
      "$id": "#/properties/geoType",
      "type": "string",
      "title": "The Geotype Schema",
      "description": "",
      "default": "",
      "examples": [
        "Feature"
      ],
      "pattern": "^(.*)$"
    },
    "geometry": {
      "$id": "#/properties/geometry",
      "type": "object",
      "title": "The Geometry Schema",
      "description": "",
      "required": [
        "type",
        "coordinates"
      ],
      "properties": {
        "type": {
          "$id": "#/properties/geometry/properties/type",
          "type": "string",
          "title": "The Type Schema",
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        "description": "",
        "default": "",
        "examples": [
            "Point"
        ],
        "pattern": "^(.*)$"
    },
    "coordinates": {
        "$id": "#/properties/geometry/properties/coordinates",
        "type": "array",
        "title": "The Coordinates Schema",
        "description": "",
        "items": {
            "$id": "#/properties/geometry/properties/coordinates/items",
            "type": "number",
            "title": "The Items Schema",
            "description": "",
            "default": 0.0,
            "examples": [
                -84.44799549,
                38.9203417,
                0
            ]
        }
    }
},
"properties": {
    "$id": "#/properties/properties",
    "type": "object",
    "title": "The Properties Schema",
    "description": "",
    "required": [
        "name",
        "huc",
        "region",
        "location",
        "type",
        "online_status"
    ],
    "properties": {
        "name": {
            "$id": "#/properties/properties/properties/name",
            "type": "string",
            "title": "The Name Schema",
            "description": "",
            "default": "",
            "examples": [
                "03254520"
            ],
            "pattern": "^(.*)$"
        },
        "huc": {
            "$id": "#/properties/properties/properties/huc",
            "type": "object",
            "title": "The Huc Schema",
            "description": "Hydrological Unit Code at subbasin level."
        },
        "region": {
            "$id": "#/properties/properties/properties/region",
            "type": "string",
            "title": "The Region Schema",
            "description": "",
            "default": "",
            "examples": [
                "0510"
            ],
            "pattern": "^(.*)$"
        },
        "location": {
            "$id": "#/properties/properties/properties/location",

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    "type": "string",
    "title": "The Location Schema",
    "description": "Description of the location of the sensor provided by source.",
    "default": "",
    "examples": [
        "LICKING RIVER AT HWY 536 NEAR ALEXANDRIA, KY"
    ],
    "pattern": "^(.*)$"
},
"type": {
    "$id": "#/properties/properties/properties/type",
    "type": "object",
    "title": "The Type Schema",
    "description": "",
    "required": [
        "title",
        "network",
        "id"
    ],
    "properties": {
        "title": {
            "$id": "#/properties/properties/properties/type/properties/title",
            "type": "string",
            "title": "The Title Schema",
            "description": "",
            "default": "",
            "examples": [
                "United States Geological Survey"
            ],
            "pattern": "^(.*)$"
        },
        "network": {
            "$id": "#/properties/properties/properties/type/properties/network",
            "type": "string",
            "title": "The Network Schema",
            "description": "",
            "default": "",
            "examples": [
                "NWIS"
            ],
            "pattern": "^(.*)$"
        },
        "id": {
            "$id": "#/properties/properties/properties/type/properties/id",
            "type": "string",
            "title": "The Id Schema",
            "description": "",
            "default": "",
            "examples": [
                "usgs"
            ],
            "pattern": "^(.*)$"
        }
    }
},
"popupContent": {
    "$id": "#/properties/properties/properties/popupContent",
    "type": "string",
    "title": "The Popupcontent Schema",
    "description": "",
    "default": "",
    "examples": [
        "03254520"
    ],
    "pattern": "^(.*)$"
},
"online_status": {
    "$id": "#/properties/properties/properties/online_status",
    "type": "string",
    "title": "The Online_status Schema",
    "description": "Typical available for continuous data. If the sensor data has been updated within

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the near past (~5 days), the sensor is designated 'online'. If there is no recent data, the sensor will be designated 'offline'. This is viewable in the UI.",

```
    "default": "",
    "examples": [
      "online"
    ],
    "pattern": "^(.*)$"
  }
},
"min_start_time": {
  "$id": "#/properties/min_start_time",
  "type": "string",
  "title": "The Min_start_time Schema",
  "description": "Timestamp of first chronological datapoint.",
  "default": "",
  "examples": [
    "2007-10-01T06:00:00Z"
  ],
  "pattern": "^(.*)$"
},
"max_end_time": {
  "$id": "#/properties/max_end_time",
  "type": "string",
  "title": "The Max_end_time Schema",
  "description": "Timestamp of most recent datapoint.",
  "default": "",
  "examples": [
    "2020-01-26T22:30:00Z"
  ],
  "pattern": "^(.*)$"
},
"parameters": {
  "$id": "#/properties/parameters",
  "type": "array",
  "title": "The Parameters Schema",
  "description": "List of measurements collected by the sensor.",
  "items": {
    "$id": "#/properties/parameters/items",
    "type": "string",
    "title": "The Items Schema",
    "description": "",
    "default": "",
    "examples": [
      "discharge-ft3s",
      "discharge-ft3s-qc",
      "dissolved-oxygen-mgl",
      "dissolved-oxygen-mgl-qc",
      "nitrate-nitrite-as-n-mgl",
      "nitrate-nitrite-as-n-mgl-qc",
      "pH",
      "pH-qc",
      "specific-conductance-uScm",
      "specific-conductance-uScm-qc",
      "turbidity-fnu",
      "turbidity-fnu-qc",
      "water-temperature-c",
      "water-temperature-c-qc"
    ],
    "pattern": "^(.*)$"
  }
}
}
```