

## GATT Attributes

The below GATT attributes will need to be read / written and notifications from them will need to be handled

Attribute Name	UUID	Properties	Data Type	Description
Mode Id	UUID 0	Read, Write	Integer	The sequence number of the mode corresponding to the mode. Max number of modes is 7, max value is 6. Modes 0-3 can only be read, 4,5,6 can be written
Target Temperature	UUID 1	Read, Write	Integer	Sets or reads the desired temperature for the kettle. Range 0-100 degrees Celsius. To be converted to Fahrenheit for user display purposes on device and app
Keep Warm	UUID 2	Read, Write	Boolean	Enables or disables the keep-warm feature. True = Enabled, False = Disabled.
Keep Warm Duration	UUID 3	Read, Write	Integer	Sets or reads the duration for which the kettle keeps water warm (in minutes).
Power Status	UUID 4	Read	String	Indicates the power status of the kettle. Values: "Not Connected", "Connected and Not Running", "Connected and Running".
Error Status	UUID 5	Read	String	Reports any error status of the kettle. Examples: "Overheating", "No Water", "None".
Current Temperature	UUID 6	Read	Integer	Read the current temperature of the water in the kettle.
Mode Name	UUID 7	Read, Write	String	Sets or reads the selected mode of the kettle. Values: "Boil", "Coffee", "Tea", "Drinking Water", "Favorite 1", "Favorite 2", "Favorite 3".
Firmware Version	UUID 8	Read	String	Reads the firmware version of the kettle.

Attribute Name	UUID	Properties	Data Type	Description
Device Name	UUID 9	Read, Write	String	Sets or reads the user-defined name for the kettle.
Device Preference	UUID 10	Read, Write	JSON	Reads or sets device-specific preferences like temperature scale (Fahrenheit/Celsius). JSON format: <code>`{"temperatureScale": "Celsius"}`</code> or <code>`{"temperatureScale": "Fahrenheit"}`</code> .
Product Serial Number	UUID 11	Read	String	Read the product's unique serial number.
Device Command	UUID 12	Read, Write, Notify	ByteArray	Commands to send to the device and get a response <ul style="list-style-type: none"> <li>- Save new mode in location 5</li> <li>- Save new schedule</li> <li>- Save new WiFi SSID and password</li> </ul>
Time	UUID 13	Write	Long Integer	Set device time for keeping track of schedules
Get Schedules	UUID 14	Read	Long Integer	Get list of schedules on device

Note:

- UUIDs (UUID 1, UUID 2, etc.) would need to be replaced with actual unique UUIDs for implementation.
- Data types should be chosen based on the most efficient representation of the data.
- Properties (Read, Write) define how the attribute can be accessed.
- JSON data types allow for more complex data structures to be transferred.