```c
 1   /* USER CODE BEGIN Header */
 2   /**
 3     ******************************************************************************
 4     * @file           : main.h
 5     * @brief          : Header for main.c file.
 6     *                   This file contains the common defines of the application.
 7     ******************************************************************************
 8     * @attention
 9     *
10     * Copyright (c) 2024 STMicroelectronics.
11     * All rights reserved.
12     *
13     * This software is licensed under terms that can be found in the LICENSE file
14     * in the root directory of this software component.
15     * If no LICENSE file comes with this software, it is provided AS-IS.
16     *
17     ******************************************************************************
18     */
19   /* USER CODE END Header */
20
21   /* Define to prevent recursive inclusion -------------------------------------*/
22   #ifndef __MAIN_H
23   #define __MAIN_H
24
25   #ifdef __cplusplus
26   extern "C" {
27   #endif
28
29   /* Includes ------------------------------------------------------------------*/
30   #include "stm32f0xx_hal.h"
31
32   /* Private includes ----------------------------------------------------------*/
33   /* USER CODE BEGIN Includes */
34   #include <stdbool.h>
35   /* USER CODE END Includes */
36
37   /* Exported types ------------------------------------------------------------*/
38   /* USER CODE BEGIN ET */
39
40   typedef struct {
41       char* nom;
42       double valeur;
43   } DefinitionValeur;
44
45   typedef enum {
46       SEUIL_TEMPERATURE_MIN,
47       SEUIL_TEMPERATURE_MAX,
48       ECART_TEMPERATURE,
49       SEUIL_HUMIDITE_MIN,
50       SEUIL_HUMIDITE_MAX,
51       ECART_HUMIDITE,
52   } ValeursServeur;
53
54   typedef enum {
55       ETAT_SEUILS,
56       ETAT_BATTERIE,
57   } ValeursSTM;
58
59   typedef enum {
60       OK,       // 0
61       ALARME,   // 1
62       INDEFINI, // 2
63   } Etat;
64
65   typedef enum {
66       INITIALISATION,
67       VERIFIER_BATTERIE,
68       MESURER_BATTERIE,
69       RECEPTION,
70       MESURER_SONDE,
71       RAFRAICHIR_EPAPER,
72       SOMMEIL,
73       REVEIL,
74   } EtatSTM;
75
76   extern bool rafraichirEPaper;
77
```

```
 78    /* USER CODE END ET */
 79
 80    /* Exported constants --------------------------------------------------------*/
 81    /* USER CODE BEGIN EC */
 82
 83    /* USER CODE END EC */
 84
 85    /* Exported macro ------------------------------------------------------------*/
 86    /* USER CODE BEGIN EM */
 87
 88    /* USER CODE END EM */
 89
 90    /* Exported functions prototypes ---------------------------------------------*/
 91    void Error_Handler(void);
 92
 93    /* USER CODE BEGIN EFP */
 94    void Initialisation(void);
 95
 96    /* USER CODE END EFP */
 97
 98    /* Private defines -----------------------------------------------------------*/
 99    #define WKUP_ESP_Pin GPIO_PIN_13
100    #define WKUP_ESP_GPIO_Port GPIOC
101    #define RST_Pin GPIO_PIN_1
102    #define RST_GPIO_Port GPIOA
103    #define DC_Pin GPIO_PIN_2
104    #define DC_GPIO_Port GPIOA
105    #define BUSY_Pin GPIO_PIN_3
106    #define BUSY_GPIO_Port GPIOA
107    #define SPI_CS_Pin GPIO_PIN_4
108    #define SPI_CS_GPIO_Port GPIOA
109    #define VAL_VBAT_Pin GPIO_PIN_6
110    #define VAL_VBAT_GPIO_Port GPIOA
111    #define LED_RED_Pin GPIO_PIN_14
112    #define LED_RED_GPIO_Port GPIOB
113    #define EN_VBAT_Pin GPIO_PIN_10
114    #define EN_VBAT_GPIO_Port GPIOA
115    #define ALARME_Pin GPIO_PIN_3
116    #define ALARME_GPIO_Port GPIOB
117    #define ESP_EN_Pin GPIO_PIN_8
118    #define ESP_EN_GPIO_Port GPIOB
119
120    /* USER CODE BEGIN Private defines */
121    #define DIN_Pin GPIO_PIN_7
122    #define DIN_GPIO_Port GPIOA
123    #define SCK_Pin GPIO_PIN_5
124    #define SCK_GPIO_Port GPIOA
125
126    #define REVEIL_Pin GPIO_PIN_5
127    #define REVEIL_GPIO_Port GPIOB
128
129    /* USER CODE END Private defines */
130
131    #ifdef __cplusplus
132    }
133    #endif
134
135    #endif /* __MAIN_H */
136
```