SYSLOGIC

SYSLOGIC controller: version 745.02



INSTALLATION INSTRUCTION

NOTICE D'INSTALLATION

INSTALLATIONSHANDBUCH

ISTRUZIONI INSTALLAZIONE

INSTRUCCIONES DE INSTALACIÓN

English

Francais

Deutsch

Italiano

Español

CONTENTS

1.1 MBC/WRC REMOTE TERMINAL 2. ELECTRICAL CONNECTIONS 2.1 MAIN BOARD 2.2 MRC/WRC REMOTE TERMINAL 2.2 MRC/WRC REMOTE TERMINAL 2.3 BRC REMOTE TERMINAL 2.4 MODEDS MODULE 2.4 MODEDS MODULE 2.4.1 CHARACTERSTICS 2.4.2 MODEDS MODULE CONNECTION 2.5 WPT WATER TEMPERATURE SENSOR 3.5 WPT WATER TEMPERATURE SENSOR 3. DIP-SWITCH CONFIGURATION 3. CONFIGURATION OF DIGITAL INPUTS 4.1 SERVINE CONFIGURATION 3.2 CONFIGURATION OF DIGITAL INPUTS 4.1 MRC/WRC REMOTE TERMINAL 4.3 INFRARED REMOTE TERMINAL 4.1 MRC/WRC REMOTE TERMINAL 4.1 A ROWING MENU 4.1 A REARMAETER MODIFICATION 4.1 A REARMAETER MODIFICATION 4.1 A ROWING THE MENU 4.2 BRC REMOTE TERMINAL 4.3 INFRARED REMOTE CONTROL IRC 4.3 A ROWING THE FRANCIAL THE MENU 5.5 A MANAGEMENT OF THE FAN COLLS AND CONNECTIVITY 5.1 MANAGEMENT WITH BMS 5.3 A ROWING THE FAN COLLS AND CONNECTIVITY 5.5 A ROWING THE FAN COLLS AND CONNECTIVITY 5.5 A ROWING THE FAN COLLS AND CONNECTIVITY 5.5 A ROWING THE FAN COLLS AND CONNECTIVITY 5.6 A ROWING THE FAN COLLS AND CONNECTIVITY 5.7 A ROWING THE FAN COLLS AND CONNECTIVITY 5.8 A ROWING THE FAN COLLS AND CONNECTIVITY 5.9 A ROWING THE FAN COLLS AND CONNECTIVITY 5.1 A ROWING THE FAN COLLS AND CONNECTIVITY 5.2 A ROWING THE FAN COLLS AND CONNECTIVITY 5.3 A ROWING THE FAN COLLS AND CONNECTIVITY 5.4 A ROWING THE FAN COLLS AND CONNECTIVITY 5.5 A ROWING THE FAN COLLS AND CONNECTIVITY 5.7 A ROWING THE FAN COLLS AND CONNECTIVITY 5.7 A ROWING THE FAN COLLS AND CONNE	1. DIMENSIONS AND INSTALLATION	3
2.1. MAIN BOARD. 2.1. MAIN BOARD. 2.2. MRC/WRC REMOTE TERMINAL. 3.2. BRC REMOTE TERMINAL. 4.3. MORBUS MODULE. 4.4. MORBUS MODULE CONNECTION 3.2. WORD MORE SENSOR. 3.2. WAS MORBUS MODULE CONNECTION 3.2. WORD MORE SENSOR. 3.3. IN ACHIER TEMPERATURE SENSOR. 3.3. IN ACHIER CONFIGURATION 3.2. CONFIGURATION OF DIGITAL INPUTS. 4.1. MRC/WRC REMOTE TERMINAL 4.1. MRC/WRC REMOTE TERMINAL 4.1. MRC/WRC REMOTE TERMINAL 4.1. A PARAMETER MODIFICATION. 4.2. BRC REMOTE TERMINAL 4.1. A PARAMETER MODIFICATION. 4.3. INFRARED REMOTE CONTROL IRC 4.3. INFRAMED REMOTE CONTROL IRC 4.3. INFRARED REMOTE CONTROL IRC 4.3. INFRAMED TERMOTE CONTROL 5. MANAGEMENT IN WITH BMS 5.3. INFRAMED TERMOTE CONTROL 6. PARAMETER TROL INFRAMED TO THE TERMOTE CONTROL 8. INFRAMED TERMOTE CONTROL 9. RESPONSIBILITY AND RESIDUAL RISKS 10. CONDITIONS OF USE 10. CONDITIONS OF USE 10. INFRAMED TERMOTE TERMINAL 10. PROMITTER DUSE 10. INFRAMED TERMOTE TERMINAL 10. THE TERMOTE TERMINAL 11. INFRAMED TERMOTE TERMINAL 11. INFRAMED TERMOTE TERMOTE TERMOT		
2.1 MAIN BOARD. 2.2 MBC/WRC REMOIT ETRIMINAL 2.3 BBC REMOITE TERMINAL 2.4 MODBUS MODULE 2.4 MODBUS MODULE CONNECTION. 2.5 WPT WATER TEMPERATURE SENSOR. 2.6 RAT AND RCT ART TEMPERATURE SENSOR. 3.1 MACHINE CONFIGURATION 3.1 MACHINE CONFIGURATION 3.2 CONFIGURATION 6. 3.2 CONFIGURATION 7. 3.1 MACHINE CONFIGURATION 8. 3.1 MACHINE CONFIGURATION 8. 3.1 MACHINE CONFIGURATION 9. 4.2 SER INTERFACE. 4.1 MC/WRC PEMOIT ETRIMINAL 4.	1.2. BRC REMOTE TERMINAL	3
2.1 MAIN BOARD. 2.2 MBC/WRC REMOIT ETRIMINAL 2.3 BBC REMOITE TERMINAL 2.4 MODBUS MODULE 2.4 MODBUS MODULE CONNECTION. 2.5 WPT WATER TEMPERATURE SENSOR. 2.6 RAT AND RCT ART TEMPERATURE SENSOR. 3.1 MACHINE CONFIGURATION 3.1 MACHINE CONFIGURATION 3.2 CONFIGURATION 6. 3.2 CONFIGURATION 7. 3.1 MACHINE CONFIGURATION 8. 3.1 MACHINE CONFIGURATION 8. 3.1 MACHINE CONFIGURATION 9. 4.2 SER INTERFACE. 4.1 MC/WRC PEMOIT ETRIMINAL 4.	2. ELECTRICAL CONNECTIONS	4
2.3. BRC REMOTE TERMINAL 2.4. MODBUS MODULE 2.4. CHARACTERISTICS 2.4.1. CHARACTERISTICS 2.4.1. CHARACTERISTICS 2.4.2. MODBUS MODULE CONNECTION. 2.5. WPT WATER TEMPERATURE SENSOR 3.1. MACHINE CONFIGURATION 8.3.1. MACHINE CONFIGURATION 8.3.1. MACHINE CONFIGURATION 8.3.2. CONFIGURATION OF DIGITAL INPUTS 4. USER INTERFACE. 4.1. MRC/WRC REMOTE TERMINAL 4.1.1. KEYS 4.1.2. DISPLAY 4.1.3. CONTROL MENU 4.1.4. PARAMETER MODIFICATION 4.2. BRC REMOTE TERMINAL 4.3. INFRARED REMOTE CONTROL IRC 4.3. AS INFRARED REMOTE CONTROL IRC 4.3. INFRARED REMOTE TERMINAL 4.3. INFRARED REMOTE TERMINAL 4.3. INFRARED REMOTE TON		
2.4. MODBUS MODULE 2.4.1 CHARACTERISTICS 2.4.2 MODBUS MODULE CONNECTION 2.5. WPT WATER TEMPERATURE SENSOR. 2.6. RAT AND RCT AIR TEMPERATURE SENSOR. 3. DIP-SWITCH CONFIGURATION 3. DIP-SWITCH CONFIGURATION 3. CONFIGURATION OF DIGITAL INPUTS 4. USER INTERFACE. 4.1 MRC/WRC REMOTE TERMINAL 4.1 NEYS. 4.1 DISPLAY 4.1 SON TROL MENU. 4.1 CONTROL MENU. 4.1 SON TROL MENU. 4.1 SON TROL MENU. 4.2 BRC REMOTE TERMINAL 4.3 INFRARED REMOTE CONTROL IRC 5. MANAGEMENT OF THE FAN COLLS AND CONNECTIVITY 5.1 MANAGEMENT INDIVIDUALLY WITHOUT BMS 5.2 MANAGEMENT OF THE FAN COLLS AND CONNECTIVITY 5.2 MANAGEMENT WITH BMS 5.3 ACCESS WA BMS. 1.5 S.2 GET BMANAGEMENT WITH BMS 5.3 ACCESS WA BMS. 1.5 S.3 GET BMANAGEMENT ONLY 5.5 S.3 MANAGEMENT BY CONES 1.6 PARAMETER TRABLE MODBUS 1.7 DIAGNOSTICS 1.7 DIAGNOSTICS 1.8 OPERATURE CONTROL 8.1 FAN 8.2 RESPONSIBILITY AND RESIDUAL RISKS 1.1 CONDITIONS OF USE 1.1 OLONDITIONS OF USE 1.1 OLONDITIONS OF USE 1.1 OLONDITIONS OF USE 1.1 OLONDITIONS OF USE 1.1 OLD PROMITTED USE 1.1 OLONDITIONS OF USE 1.1 OLD PROMITTED USE 1.1 OLD PROMITTED USE 1.1 OLONDITIONS OF USE	2.2. MRC/WRC REMOTE TERMINAL	5
2.4.1 CHARACTERISTICS 2.4.2 MODBUS MODULE CONNECTION 2.5. WPT WATER TEMPERATURE SENSOR 2.6. RAT AND RCT AIR TEMPERATURE SENSOR 3. DIP-SWITCH CONFIGURATION 3.1. MACHINE CONFIGURATION 3.2. CONFIGURATION DIGITAL INPUTS. 4. USER INTERFACE. 4.1. MRC/WRC REMOTE TERMINAL 4.1. KEYS 4.1.2 DISPLAY. 4.1.3 CONTROL MRU 4.1.4 PARAMETER MODIFICATION. 4.2. BRC REMOTE TERMINAL 4.3. INFRARED REMOTE CONTROL IRC 4.3. INFRARED REMOTE CONTROL IRC 4.3. AS MODBUS PARAMETER MODIFICATION. 4.3. AS MODBUS PARAMETER MODIFICATION. 5. MANAGEMENT OF THE FAN COILS AND CONNECTIVITY 5.1. MANAGEMENT OF THE FAN COILS AND CONNECTIVITY 5.2. MANAGEMENT BY ZONES WITHOUT BMS 5.3. MANAGEMENT WITH BMS. 5.3. MANAGEMENT WITH BMS. 5.3. ANANAGEMENT WITH BMS. 5.3. ANANAGEMENT BY ZONES WITHOUT BMS 5.3. ANANAGEMENT WITH BMS. 5.3. ANANAGEMENT BY ZONES WITHOUT BMS 5.3. ANANAGEMENT WITH BMS. 6.1. CONFIGURATION PARAMETERS 7. DIAGNOSTICS 8.1 LONFIGURATION PARAMETERS 10.1 PERMITTER BLE MODBUS 8.1 ROOM TEMPERATURE CONTROL 8.1 LONFIGURATION PARAMETERS 10.2 PROPHIBITED USE 10.1 PERMITTER USE 11.1 LONFIGURATION PARAMETERS 11.2 LONFIGURATION PARAMETERS 11.3 LONFIGURATION PARAMETERS 11.4 LONFIGURATION PARAMETERS 11.5 LONFIGUR	2.3. BRC REMOTE TERMINAL	<i>6</i>
2.4 MODBUS MODULE CONNECTION. 2.5 WPT WATER TEMPERATURE SENSOR. 2.6 RAT AND RCT AIR TEMPERATURE SENSOR. 3. DIP-SWITCH CONFIGURATION. 3. LONGIGURATION. 3. LONGIGURATION OF DIGITAL INPUTS. 4. USER INTERFACE. 4.1 MICHINE CONFIGURATION. 4.1 MICHINE CONFIGURATION. 5. LONGIGURATION OF DIGITAL INPUTS. 4.1 MICHINE REMOTE TERMINAL. 4.1 MICHINE REMOTE CONTROL IRC. 4.3 INFRARED REMOTE CONTROL IRC. 4.3 INFRARED REMOTE CONTROL IRC. 4.3 MINERARED REMOTE CONTROL IRC. 4.3 MINERARED REMOTE TERMINAL. 5. MANAGEMENT OF THE FAN COILS AND CONNECTIVITY. 1. MICHINE MICHINE MICHINE REMOTE CONTROL IN MICHINE REMOTE RE	2.4. MODBUS MODULE	<i>6</i>
2.5. WPT WATER TEMPERATURE SENSOR	2.4.1. CHARACTERISTICS	6
2.6. RAT AND RCT AIR TEMPERATURE SENSOR 3. DIP-SWITCH CONFIGURATION 3.1. MACHINE CONFIGURATION 3.2. CONFIGURATION OF DIGITAL INPUTS. 4. USER INTERFACE. 4.1. MERCYWRC REMOTE TERMINAL 4.1. KEYS 4.1. LISEPLAY. 4.1. SONTROL MENU 4.1. APRAMETER MODIFICATION 4.1. APRAMETER MODIFICATION 4.2. BRC REMOTE TERMINAL 4.3. INFERACE CONTROL IRC 4.3. INFERACE REMOTE CONTROL IRC 4.3. INFERACE REMOTE TERMINAL 4.3. INFERACE REMOTE TERMINAL 4.3. INFERACE REMOTE TERMINAL 4.3. INFERACE REMOTE CONTROL IRC 4.3. AS JOSPLAY. 4.3. JOSPLAY. 4.3. JOSPLAY. 4.3. JOSPLAY. 5. MANAGEMENT OF THE FAN COILS AND CONNECTIVITY 5.1. MANAGEMENT INFUNDUALLY WITHOUT BMS 5.1. MANAGEMENT BY ZONES WITHOUT BMS 5.2. MANAGEMENT BY ZONES WITHOUT BMS 5.3. MANAGEMENT BY THE FAN COILS AND CONNECTIVITY 5.3. MANAGEMENT BY THE FAN COILS AND CONNECTIVITY 6. S.3. MANAGEMENT BY DONES WITHOUT BMS 7. S.3. MANAGEMENT BY THE FAN COILS AND CONNECTIVITY 7. DIAGNOSTICS 7. DIAGNOSTICS 8.1 FAN MANAGEMENT OF THE FAN COILS AND CONNECTIVITY 9. PERAMETER TABLE MODBUS 10. C. S. STATUS PARAMETERS 11. AS OPERATING MODE 8.1 ROOM TEMPERATURE CONTROL 8.1 FAN 8.1	2.4.2. MODBUS MODULE CONNECTION	7
3. ID-SWITCH CONFIGURATION 3.1. MACHINE CONFIGURATION 3.2. CONFIGURATION OF DIGITAL INPUTS 4. USER INTERFACE. 4.1. MRC/WRC REMOTE TERMINAL 4.1. MEYS 4.1. MEYS 4.1. SONTROL MENU 4.1. A PARAMETER MODIFICATION 4.1. A PARAMETER MODIFICATION 4.1. A PARAMETER MODIFICATION 4.1. A PARAMETER MODIFICATION 4.2. BRC REMOTE TERMINAL 4.3. INFRARED REMOTE CONTROL IRC 4.3. INFRARED REMOTE CONTROL IRC 4.3. A SONTROL MENU 4.3. MODIST PARAMETER MODIFICATION 5. MANAGEMENT OF THE FAN COILS AND CONNECTIVITY 5. MANAGEMENT OF THE FAN COILS AND CONNECTIVITY 5. MANAGEMENT INDIVIDUALLY WITHOUT BMS 5. MANAGEMENT WITH BMS 5.3. MANAGEMENT WITH BMS 5.3. AMANAGEMENT WITH BMS 5.3. AMANAGEMENT BY ZONES WITHOUT BMS 5.3.3 MANAGEMENT WITH BMS 5.3.3 MANAGEMENT BY ZONES WITHOUT BMS 5.3.3 MANAGEMENT BY ZONES 5.3.4 GE MANAGEMENT ONLY 5.3.3 MANAGEMENT ONLY 5.3	2.5. WPT WATER TEMPERATURE SENSOR	<u>/</u>
3.1 MACHINE CONFIGURATION		
3.2 CONFIGURATION OF DIGITAL INPUTS. 4. USER INTERFACE. 4.1. MRK/WRC REMOTE TERMINAL 4.1. KEYS 4.1. DISPLAY 4.1. SONTROL MENU. 4.1.4. PARAMETER MODIFICATION. 4.1.4. PARAMETER MODIFICATION. 4.1.4. PARAMETER MODIFICATION. 4.2. BRC REMOTE TERMINAL 4.3. INFRARED REMOTE CONTROL IRC 4.3.2. DISPLAY 4.3.2. OISPLAY 4.3.3. MODBUS PARAMETER MODIFICATION 5. MANAGEMENT OF THE FAN COILS AND CONNECTIVITY 5.1. MANAGEMENT OF THE FAN COILS AND CONNECTIVITY 5.2. MANAGEMENT INDIVIDUALLY WITHOUT BMS 5.3. MANAGEMENT WITH BMS 5.3. MANAGEMENT WITH BMS 5.3.1 ACCESS WIA BMS 5.3.1 ACCESS WIA BMS 5.3.2 CIBM MANAGEMENT ONLY 5.3.3. MANAGEMENT ONLY 5.3. MANAGEMENT ONLY 5. M		
4. USER INTERFACE. 5 4.1. MRC/WRC REMOTE TERMINAL. 6 4.1.1. KEYS 9 4.1.2. DISPLAY 9 4.1.3. CONTROL MENU 9 4.1.4. PARAMETER MODIFICATION. 11 4.2. BRC REMOTE TERMINAL 10 4.3. INFRARED REMOTE CONTROL IRC 11 4.3. INFRARED REMOTE CONTROL IRC 11 4.3. INFRARED REMOTE FAIL TO THE FAIL COLDS AND CONNECTIVITY 12 5. MANAGEMENT OF THE FAN COLLS AND CONNECTIVITY 12 5.1. MANAGEMENT INDIVIDUALLY WITHOUT BMS 13 5.2. MANAGEMENT BY ZONES WITHOUT BMS 15 5.3. ACCESS VIA BMS 16 5.3.1. ACCESS VIA BMS 12 5.3.2. GTB MANAGEMENT ONLY 15 5.3.3. MANAGEMENT BY ZONES 15 6. PARAMETER TABLE MODBUS 16 6.1. CONFIGURATION PARAMETERS 16 6.2. STATUS PARAMETERS 16 7. DIAGNOSTICS 17 8. 1. FAN. 18 8.1.1. FAN. 18 8.2. AUTO MODE 18 9. RESPONSIBILITY AND RESIDUAL RISKS 15 10. L. PERMITTED USE 15 </td <td>3.1. MACHINE CONFIGURATION</td> <td>8</td>	3.1. MACHINE CONFIGURATION	8
4.1. MRC/WRC REMOTE TERMINAL 9. 4.1.1 KEYS 4.1.2 DISPLAY. 4.1.3. CONTROL MENU 9. 4.1.4 PARAMETER MODIFICATION. 11. 4.2. BRC REMOTE TERMINAL 11. 4.3. INFRABED REMOTE CONTROL IRC. 11. 4.3.1 KEYS 1. 4.3.2 DISPLAY. 1. 4.3.3 MOBBUS PARAMETER MODIFICATION 1. 5. MANAGEMENT OF THE FAN COILS AND CONNECTIVITY 15. 5.1. MANAGEMENT INDIVIDUALLY WITHOUT BMS 1. 5.2. MANAGEMENT BY ZONES WITHOUT BMS 1. 5.3. ACCESS VIA BMS 1. 5.3.1 ACCESS VIA BMS 1. 5.3.2 GTB MANAGEMENT ONLY 1. 5.3.3 MANAGEMENT BY ZONES 1. 6. PARAMETER TABLE MODBUS 1. 6.1 CONFIGURATION PARAMETERS 1. 6.2. STATUS PARAMETERS 1. 7. DIAGNOSTICS 11. 8. OPERATING MODE 1. 8.1. FAN 1. 8.1. FAN 1. 8.2. AUTO MODE 1. 9. RESPONSIBILITY AND RESIDUAL RISKS 1. 10.1. PERMITTED USE 1. 10.1. PERMITTED		
4.11. KEYS		
4.1.2, DISPLAY 4.1.4 PARAMETER MODIFICATION 4.1.4 PARAMETER MODIFICATION 4.2. BRC REMOTE TERMINAL 4.3. INFRARED REMOTE CONTROL IRC 4.3.1. KEYS 4.3.2. DISPLAY 4.3.3. MODBUS PARAMETER MODIFICATION 5. MANAGEMENT OF THE FAN COILS AND CONNECTIVITY 5.1. MANAGEMENT INDIVIDUALLY WITHOUT BMS 5.2. MANAGEMENT WITH BMS 5.3. MANAGEMENT WITH BMS 5.3.1. ACCESS VIA BMS 5.3.2 GIB MANAGEMENT ONLY 5.3.2 GIB MANAGEMENT BY ZONES 6. PARAMETER TABLE MODBUS 6.1. CONFIGURATION PARAMETERS 6.2. STATUS PARAMETERS 7. DIAGNOSTICS 8.1 ROOM TEMPERATURE CONTROL 8.1. FAN. 8.1. FAN. 8.2. AUTO MODE 9. RESPONSIBILITY AND RESIDUAL RISKS 10. CONDITIONS OF USE 10.1. PERMITTED USE <tr< td=""><td>4.1. MRC/WRC REMOTE TERMINAL</td><td>9</td></tr<>	4.1. MRC/WRC REMOTE TERMINAL	9
4.13. CONTROL MENU. 5.5		
4.1.4 PARAMETER MODIFICATION 11 4.2. BRC REMOTE TERMINAL 10 4.3. INFRARED REMOTE CONTROL IRC 11 4.3.1. KEYS 1 4.3.2. DISPLAY 1 4.3.3. MODBUS PARAMETER MODIFICATION 1 5. MANAGEMENT OF THE FAN COILS AND CONNECTIVITY 15 5.1. MANAGEMENT BVIDIVIDUALLY WITHOUT BMS 1 5.2. MANAGEMENT WITH BMS 1 5.3. MANAGEMENT WITH BMS 1 5.3.1. ACCESS VIA BMS 1 5.3.2. GTB MANAGEMENT ONLY 1 5.3.3. MANAGEMENT BY ZONES 1 6. PARAMETER TABLE MODBUS 1 6.1. CONFIGURATION PARAMETERS 1 6.2. STATUS PARAMETERS 1 7. DIAGNOSTICS 1 8.1 ROOM TEMPERATURE CONTROL 18 8.1.1. FAN. 1 8.1.2. VALVE 1 8.2. AUTO MODE 18 9. RESPONSIBILITY AND RESIDUAL RISKS 15 10.1. PERMITTED USE 15 10.2. PROHIBITED USE 15		
4.2. BRC REMOTE TERMINAL. 10 4.3. INFRARED REMOTE CONTROL IRC 11 4.3.1. KEYS 17 4.3.2. DISPLAY. 17 4.3.3. MODBUS PARAMETER MODIFICATION 11 5. MANAGEMENT OF THE FAN COILS AND CONNECTIVITY 11 5.1. MANAGEMENT OF THE FAN COILS AND CONNECTIVITY 11 5.1. MANAGEMENT BY ZONES WITHOUT BMS 11 5.2. MANAGEMENT BY ZONES WITHOUT BMS 11 5.3.1. ACCESS VIA BMS 11 5.3.1. ACCESS VIA BMS 11 5.3.2. GTB MANAGEMENT ONLY 11 5.3.3. MANAGEMENT BY ZONES WITHOUT SURS 11 6. PARAMETER TABLE MODBUS 11 6.1. CONFIGURATION PARAMETERS 11 6.2. STATUS PARAMETERS 11 8.1. PANAMETER TABLE MODBUS 11 8.1. ROOM TEMPERATURE CONTROL 18 8.1. ROOM TEMPERATURE CONTROL 18 8.1. FAN 18 8.1. VALVE 18 8.2. AUTO MODE 18 9. RESPONSIBILITY AND RESIDUAL RISKS 15 10. CONDITIONS OF USE 15 10.1. PERMITTED USE 15		
4.3. INFRARED REMOTE CONTROL IRC 1 4.3.1. KEYS 1 4.3.2. DISPLAY. 1 4.3.3. MODBUS PARAMETER MODIFICATION 1 5. MANAGEMENT OF THE FAN COILS AND CONNECTIVITY 1 5.1. MANAGEMENT INDIVIDUALLY WITHOUT BMS 1 5.2. MANAGEMENT BY ZONES WITHOUT BMS 1 5.3. MANAGEMENT WITH BMS 1 5.3.1. ACCESS VIA BMS 1 5.3.2. GTB MANAGEMENT ONLY 1 5.3.3. MANAGEMENT BY ZONES 1 6. PARAMETER TABLE MODBUS 1 6.1. CONFIGURATION PARAMETERS 1 6.2. STATUS PARAMETERS 1 7. DIAGNOSTICS 1 8. OPERATING MODE 1 8.1. ROOM TEMPERATURE CONTROL 1 8.1. PAN. 1 8.2. JUTO MODE 1 9. RESPONSIBILITY AND RESIDUAL RISKS 1 10. CONDITIONS OF USE 1 10.1. PERMITTED USE 1 10.2. PROHIBITED USE 1		
4.3.1 keys	4.3 INFRARED REMOTE CONTROL IRC	11
4.3.3. MODBUS PARAMETER MODIFICATION 1.7 5. MANAGEMENT OF THE FAN COILS AND CONNECTIVITY 1.2 5.1. MANAGEMENT INDIVIDUALLY WITHOUT BMS 1.3 5.2. MANAGEMENT BY ZONES WITHOUT BMS 1.5 5.3. MANAGEMENT WITH BMS 1.6 5.3.1. ACCESS VIA BMS 1.7 5.3.2. GTB MANAGEMENT BY ZONES 1.7 5.3.3. MANAGEMENT BY ZONES 1.6 6. PARAMETER TABLE MODBUS 1.6 6.1. CONFIGURATION PARAMETERS 1.6 6.2. STATUS PARAMETERS 1.6 6.2. STATUS PARAMETERS 1.7 7. DIAGNOSTICS 1.7 8. OPERATING MODE 1.8 8.1.1. FAN. 1.8 8.1.2. VALVE 1.8 8.2. AUTO MODE 1.8 9. RESPONSIBILITY AND RESIDUAL RISKS 1.5 10. CONDITIONS OF USE 1.5 10.1. PERMITTED USE 1.9 10.2. PROHIBITED USE 1.9	4.3.1. KEYS	11
5. MANAGEMENT OF THE FAN COILS AND CONNECTIVITY 1 5.1. MANAGEMENT INDIVIDUALLY WITHOUT BMS 1 5.2. MANAGEMENT BY ZONES WITHOUT BMS 1 5.3. MANAGEMENT WITH BMS 1 5.3.1. ACCESS VIA BMS 1 5.3.2. GTB MANAGEMENT ONLY 1 5.3.3. MANAGEMENT BY ZONES 1 6. PARAMETER TABLE MODBUS 1 6.1. CONFIGURATION PARAMETERS 1 6.2. STATUS PARAMETERS 1 7. DIAGNOSTICS 1 8. OPERATING MODE 1 8.1.1. FAN 1 8.1.2. VALVE 1 8.2. AUTO MODE 1 9. RESPONSIBILITY AND RESIDUAL RISKS 1 10. CONDITIONS OF USE 1 10.1. PERMITTED USE 1 10.2. PROHIBITED USE 1	4.3.2. DISPLAY	11
5.1. MANAGEMENT INDIVIDUALLY WITHOUT BMS 12 5.2. MANAGEMENT BY ZONES WITHOUT BMS 13 5.3. MANAGEMENT WITH BMS 14 5.3.1. ACCESS VIA BMS 14 5.3.2. GTB MANAGEMENT ONLY 14 5.3.3. MANAGEMENT BY ZONES 15 6. PARAMETER TABLE MODBUS 16 6.1. CONFIGURATION PARAMETERS 16 6.2. STATUS PARAMETERS 16 6.2. STATUS PARAMETERS 17 7. DIAGNOSTICS 17 8. OPERATING MODE 17 8.1. ROOM TEMPERATURE CONTROL 18 8.1.1. FAN 16 8.2. AUTO MODE 18 9. RESPONSIBILITY AND RESIDUAL RISKS 18 10. CONDITIONS OF USE 15 10.1. PERMITTED USE 15 10.2. PROHIBITED USE 15	4.3.3. MODBUS PARAMETER MODIFICATION	12
5.2. MANAGEMENT BY ZONES WITHOUT BMS 12 5.3. MANAGEMENT WITH BMS 14 5.3.1. ACCESS VIA BMS 14 5.3.2. GTB MANAGEMENT ONLY 14 5.3.3. MANAGEMENT BY ZONES 15 6. PARAMETER TABLE MODBUS 16 6.1. CONFIGURATION PARAMETERS 16 6.2. STATUS PARAMETERS 17 7. DIAGNOSTICS 17 8. OPERATING MODE 18 8.1. ROOM TEMPERATURE CONTROL 18 8.1.1. FAN 18 8.1.2. VALVE 18 8.2. AUTO MODE 18 9. RESPONSIBILITY AND RESIDUAL RISKS 18 10. CONDITIONS OF USE 15 10.1. PERMITTED USE 15 10.2. PROHIBITED USE 15		
5.3. MANAGEMENT WITH BMS 14 5.3.1. ACCESS VIA BMS 15 5.3.2. GTB MANAGEMENT ONLY 15 5.3.3. MANAGEMENT BY ZONES 16 6. PARAMETER TABLE MODBUS 16 6.1. CONFIGURATION PARAMETERS 16 6.2. STATUS PARAMETERS 17 7. DIAGNOSTICS 17 8. OPERATING MODE 18 8.1. ROOM TEMPERATURE CONTROL 18 8.1.1. FAN 18 8.1.2. VALVE 18 8.2. AUTO MODE 18 9. RESPONSIBILITY AND RESIDUAL RISKS 18 10. CONDITIONS OF USE 15 10.1. PERMITTED USE 15 10.2. PROHIBITED USE 19		
5.3.1. ACCESS VIA BMS. 1- 5.3.2. GTB MANAGEMENT ONLY 1- 5.3.3. MANAGEMENT BY ZONES 1- 6. PARAMETER TABLE MODBUS 1- 6.1. CONFIGURATION PARAMETERS 1- 6.2. STATUS PARAMETERS 1- 7. DIAGNOSTICS 17 8. OPERATING MODE 18 8.1. ROOM TEMPERATURE CONTROL 18 8.1.1. FAN 1- 8.1.2. VALVE 1- 8.2. AUTO MODE 1- 9. RESPONSIBILITY AND RESIDUAL RISKS 1- 10. CONDITIONS OF USE 1- 10.1. PERMITTED USE 1- 10.2. PROHIBITED USE 1-		
5.3.2. GTB MANAGEMENT ONLY 5.3.3. MANAGEMENT BY ZONES 6. PARAMETER TABLE MODBUS 6.1. CONFIGURATION PARAMETERS 6.2. STATUS PARAMETERS 7. DIAGNOSTICS 8. OPERATING MODE 8.1. ROOM TEMPERATURE CONTROL 8.1.1. FAN 8.1.2. VALVE 8.2. AUTO MODE 9. RESPONSIBILITY AND RESIDUAL RISKS 10. CONDITIONS OF USE 10.1. PERMITTED USE 10.2. PROHIBITED USE		
5.3.3. MANAGEMENT BY ZONES 15 6. PARAMETER TABLE MODBUS 16 6.1. CONFIGURATION PARAMETERS 1 6.2. STATUS PARAMETERS 17 7. DIAGNOSTICS 17 8. OPERATING MODE 18 8.1. ROOM TEMPERATURE CONTROL 18 8.1.1. FAN 18 8.1.2. VALVE 18 8.2. AUTO MODE 18 9. RESPONSIBILITY AND RESIDUAL RISKS 15 10. CONDITIONS OF USE 15 10.1. PERMITTED USE 15 10.2. PROHIBITED USE 15		
6. PARAMETER TABLE MODBUS 16 6.1. CONFIGURATION PARAMETERS 16 6.2. STATUS PARAMETERS 17 7. DIAGNOSTICS 17 8. OPERATING MODE 18 8.1. ROOM TEMPERATURE CONTROL 18 8.1.1. FAN. 18 8.1.2. VALVE 18 8.2. AUTO MODE 18 9. RESPONSIBILITY AND RESIDUAL RISKS 18 10. CONDITIONS OF USE 15 10.1. PERMITTED USE 15 10.2. PROHIBITED USE 15		
6.1. CONFIGURATION PARAMETERS		
6.2. STATUS PARAMETERS		
7. DIAGNOSTICS		
8. OPERATING MODE 18 8.1. ROOM TEMPERATURE CONTROL 18 8.1.1. FAN 11 8.1.2. VALVE 18 8.2. AUTO MODE 18 9. RESPONSIBILITY AND RESIDUAL RISKS 15 10. CONDITIONS OF USE 15 10.1. PERMITTED USE 15 10.2. PROHIBITED USE 15		
8.1. ROOM TEMPERATURE CONTROL		
8.1.1. FAN. 11 8.1.2. VALVE 12 8.2. AUTO MODE 12 9. RESPONSIBILITY AND RESIDUAL RISKS 15 10. CONDITIONS OF USE 15 10.1. PERMITTED USE 15 10.2. PROHIBITED USE 15 10.2. PROHIBITED USE 15 11 12 13 14 15 15 16 17 17 18 18 18 18 18 19 19 19 19 19 19 19 19 19 19 19 19 19		
8.1.2. VALVE 18 8.2. AUTO MODE 18 9. RESPONSIBILITY AND RESIDUAL RISKS 19 10. CONDITIONS OF USE 19 10.1. PERMITTED USE 19 10.2. PROHIBITED USE 19		
8.2. AUTO MODE		
9. RESPONSIBILITY AND RESIDUAL RISKS 19 10. CONDITIONS OF USE 19 10.1. PERMITTED USE 19 10.2. PROHIBITED USE 19		
10. CONDITIONS OF USE 19 10.1. PERMITTED USE 19 10.2. PROHIBITED USE 19		
10.1. PERMITTED USE		
10.2. PROHIBITED USE		
	11. DISPOSAL	

1. DIMENSIONS AND INSTALLATION

1.1. MRC/WRC REMOTE TERMINAL

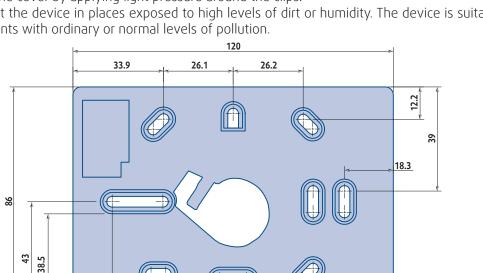
The MRC remote control is fitted on the fan convector unit in the housing provided for this purpose.

The **WRC** remote control is designed to be mounted on a wall.

To mount the **WRC** remote terminal:

- 1. fix the back to the wall
- **2.** fasten the cover by applying light pressure around the clips.

Do not mount the device in places exposed to high levels of dirt or humidity. The device is suitable for use in environments with ordinary or normal levels of pollution.



Measurements are in millimetres. 31.1

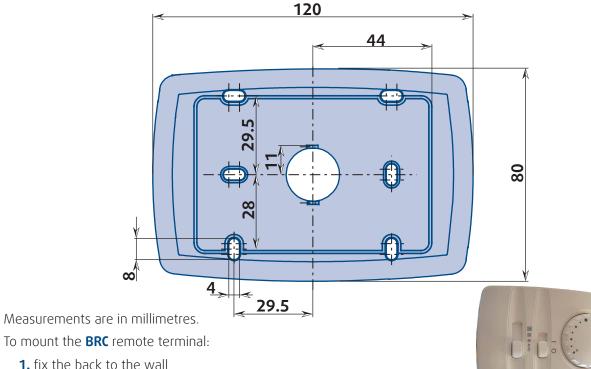
14.1

4

1.2. BRC REMOTE TERMINAL

9

14.7



1. fix the back to the wall

2. fasten the cover by applying light pressure around the clips.

Do not mount the device in places exposed to high levels of dirt or humidity. The device is suitable for use in environments with ordinary or normal levels of pollution.

2. ELECTRICAL CONNECTIONS





HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- > Disconnect all power from all equipment including connected devices, prior to removing any covers or doors, or installing or removing any accessories, hardware, cables, or wires.
- > Always use a properly rated voltage sensing device to confirm the power is off where and when indicated.
- > Replace and secure all covers, accessories, hardware, cables, and wires and confirm that a proper ground connection exists before applying power to the unit.
- > Use only the specified voltage when operating this device and any associated products.

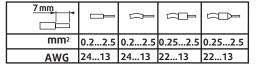
Failure to follow these instructions can result in death, serious injury.

This device has been designed to operate outside of any hazardous location.

Only install this device in zones known to be free of hazardous atmosphere.

The device is equipped with screw-type or removable terminal boards for connection of wires having a maximum cross section of 2.5 mm2 - 13 AWG (a single conductor per terminal for the power connections): refer to the label on the instrument for details of the terminal ratings. Do not exceed the maximum permitted current; for higher loads, use a contactor with sufficient power capacity. Probes have no connection polarity

and can be extended using a normal two-core cable (note that extension of the probe leads influences the instrument's electromagnetic compatibility - EMC: take great care with the wiring). Probe cables, power supply cables and the TTL serial cables should be routed separately from power cables.



The following table presents the cable types and wire sizes for a **5.00** or **5.08** pitch removable screw terminals block:

|--|

LOOSE WIRING CAUSES ELECTRIC SHOCK

Tighten connections in conformance with the torque specifications.

Failure to follow these instructions will result in death or serious injury.

UNINTENDED EQUIPMENT OPERATION DUE TO ELECTROSTATIC DISCHARGE DAMAGE

- > Keep equipment in the protective conductive packaging until you are ready to install the equipment.
- > Only install equipment in approved enclosures and / or locations that prevent unauthorized access and provide electrostatic discharge protection as defined by IEC 1000-4-2.
- ➤ Use a conductive wrist strap or equivalent field force protective device attached to an earth ground when handling sensitive equipment.
- ➤ Always discharge yourself by touching a grounded surface or approved antistatic mat before handling the equipment.

Failure to follow these instructions can result in death, serious injury, or equipment damage.



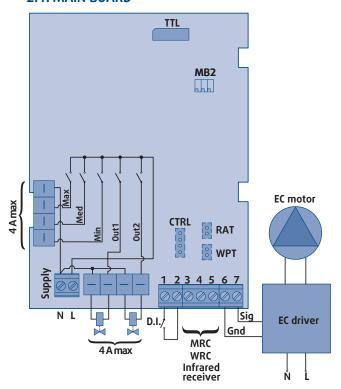
Caution

The main board is sensitive to electrostatic discharges. Eliminate electrostatic discharges appropriately (by means of anti-static bracelets, shoe-covers, etc.) before handling and installing the electronic device.



CAUTION OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DISCHARGE SENSITIVE DEVICES

2.1. MAIN BOARD



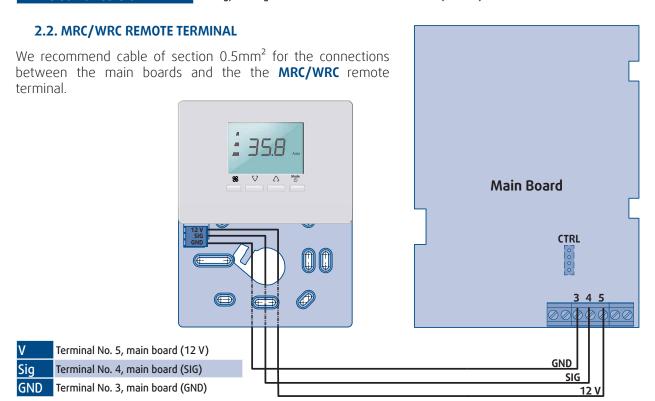
RAT	Air probe with quick connector
WPT	Water probe with quick connector
1-2	Digital input D.I.
3	MRC/WRC connection (GND)
4	MRC/WRC connection (SIGNAL)
5	MRC/WRC connection (+12 V)
6	Analogue output (GND)
7	0 - 10 V analogue output (SIG)
Supply	100 240 Vac power supply input
N/L	EC driver power supply
Min	Relay 3 digital output (low speed)
Med	Relay 4 digital output (medium speed)
Max	Relay 5 digital output (maximum speed)
Out1	AUX 1 digital output (cooling valve)
Out2	AUX 2 digital output (heating valve)
MB2	Connection for Modbus Module
CTRL	Quick connector for on-board control
TTL	TTL quick connector for DMI interface



Caution

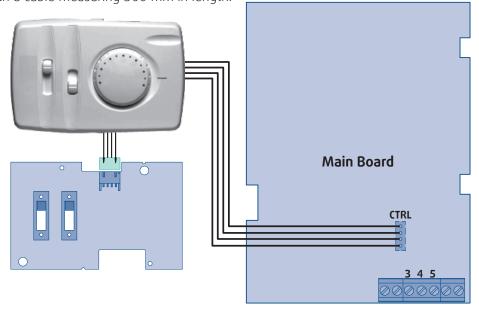
Do not connect EC driver power supply to "**SUPPLY**" on-board connector. Power the EC driver by the means of a direct mains voltage connection.

Machine configuration	Output out1	Output out2
1 valve	Cooling/Heating valve	Not used
2 valves	Cooling valve	Heating valve
With electric heaters	Cooling/Heating valve	Electric heater (2A max)

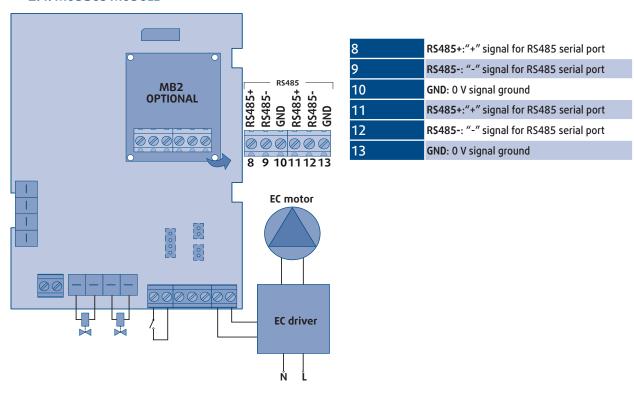


2.3. BRC REMOTE TERMINAL

The remote terminal **BRC** of the main board is connected by means of the cable supplied, with a polarised JST connector. Supplied with a cable measuring 500 mm in length.



2.4. MODBUS MODULE

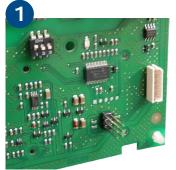


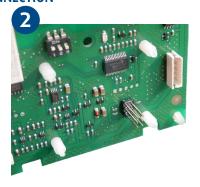
2.4.1. CHARACTERISTICS

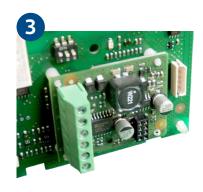
Тур	Modbus RTU
Speed	9600 bauds
Data lenght	8 bit
Stop	1 bit
Parity	none

Refer to the § **CONFIGURATION PARAMETERS**, page 16 for more information...

2.4.2. MODBUS MODULE CONNECTION







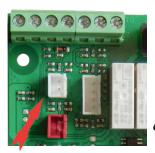


Shielded twisted single pair cable with screen 0.33 mm² to 0.5mm² (AWG 20/22)

2.5. WPT WATER TEMPERATURE SENSOR

The **WPT** water sensor must always be positioned on the water supply pipe upstream of the valve.

The **WPT** water sensor is connected to the white terminal.





Caution

For a 4-pipe machine, the **WPT** water sensor must be installed on the hot water pipe.



Caution

In master/slave control mode, a <u>single</u> WPT water sensor must be connected to the fitted SYSLOGIC card of the MRC/WRC remote control or infrared remote control.

2.6. RAT AND RCT AIR TEMPERATURE SENSOR

The air temperature, measured by the factory-fitted **RAT** sensor, is considered as a reference temperature for the unit.

The **RAT** water sensor is connected to the red terminal.

If the **RAT** air sensor is not fitted or is disconnected, the system changes over automatically to the **RCT** air sensor integrated into the **MRC/WRC** remote control or infrared remote control receiver.

In master/slave control mode, each unit of the zone uses its own air sensor to control its ventilation and valves.





Caution

In auto change-over mode, the RAT air sensor is deactivated. The auto change-over mode is fully controlled by the RCT air temperature sensor integrated into the MRC/WRC remote control or infrared remote control receiver.

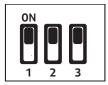


Caution

The auto change-over mode is not recommended if the MRC remote control is fitted the bodywork of the fan convector unit.

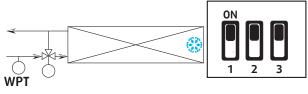
3. DIP-SWITCH CONFIGURATION

The main board is equipped with a DIP-switch for configuring the board at the time of installation, according to the system in which it is installed.



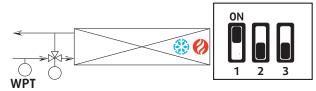
3.1. MACHINE CONFIGURATION

2 pipes with valve - Cooling only



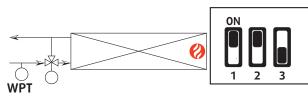
P07 not applicable (hidden)

2 pipes with valve - Reversible/change over



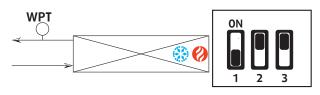
P07 not applicable (hidden)

2 pipes with valve - Heating only



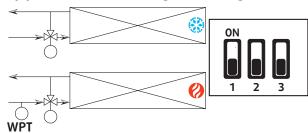
P07 not applicable (hidden)

2 pipes without valve - Reversible/change over



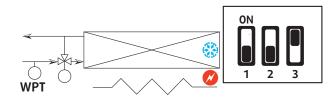
P07 not applicable (hidden)

4 pipes with valve - Cooling and heating



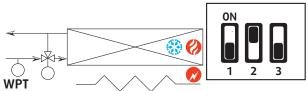
P07 not applicable (hidden)

2 pipes with valve and electric heater Cooling/Heating



P07 = 1 (heating with electrical heater, hidden)
Mode Auto not permitted (not displayed by HMI)

2 pipes with valve and electric heater Reversible/change over



P07 = 0 (electrical heater as aux. heating, hidden)

3.2. CONFIGURATION OF DIGITAL INPUTS



Caution

Dgital inputs is always in local mode (each machine uses its own digital input).

4. USER INTERFACE

4.1. MRC/WRC REMOTE TERMINAL

4.1.1. KEYS

No.	Description of keys
1	- Ventilation control - Esc function in programming menu
2	Down key: - Decrease values - Scroll through values
3	Up key: - Increase values - Scroll through values
4	- Switch ON/OFF by pressing and holding for 5 seconds - Change mode by pressing once



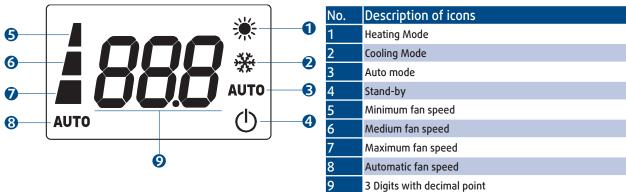


Information

To switch the device on/off, the button (\bigcirc) must be pressed for 5 seconds.

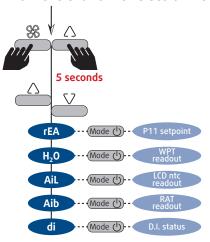
To activate modification of the set-point, one of the buttons (∇ / \triangle) must be pressed for 3 seconds.

4.1.2. **DISPLAY**



4.1.3. CONTROL MENU

This menu allows the values of the unit sensors to be read.



PAR.	Description
rЕA	Room temperature set-point
H ₂ O	Water temperature (WPT)
AiL	Air temperature measured by the remote control (RCT)
Aib	Air temperature measured by the air return sensor (RAT)
di	Configuring input DI1: 1. = Eco mode 2. = On/Off

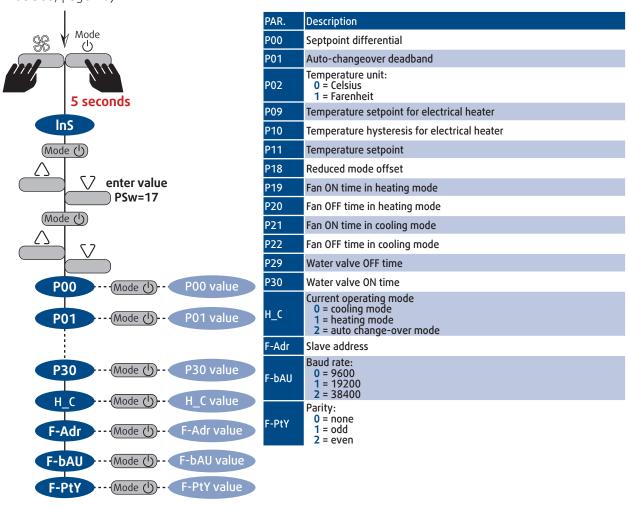


Information

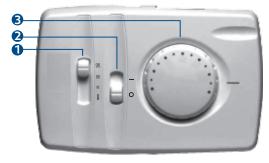
If left unused for 15 seconds, the keypad times out and reverts to the main window.

4.1.4. PARAMETER MODIFICATION

This menu can modify or control the operating parameters of the unit (Refer to the § **PARAMETER TABLE MODBUS**, page 16).



4.2. BRC REMOTE TERMINAL



No.	Description
1	Ventilation control/auto
2	ON/OFF
3	Temperature control ±5 °C / °F

The **BRC** remote control is **not a thermostat**. It is used to control the unit's operation, the fan speed and to shift the temperature set-point by more or less 5°C.

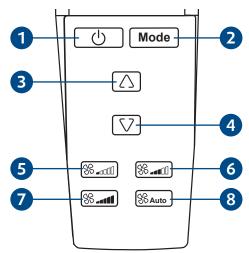


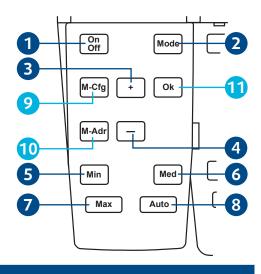
Caution

Switching off the unit by the **MRC/WRC** or infrared remote control remote control has priority over all other commands of the **BRC**.

4.3. INFRARED REMOTE CONTROL IRC

4.3.1. KEYS





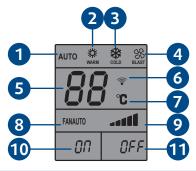
No	Description of keys
1	ON/OFF
2	Operating mode auto change-over mode heating mode cooling mode
3	Increase values
4	Decrease values
5	Ventilation control - Minimum fan speed
6	Ventilation control - Medium fan speed
7	Ventilation control - Maximum fan speed
8	Ventilation control - Automatic fan speed

No Description of keys

10 Address 1....255

11 Validation / Confirmation

4.3.2. **DISPLAY**



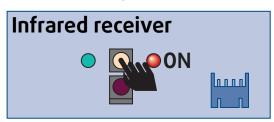


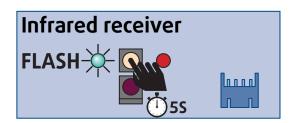
N°	Description of icons
1	Auto mode
2	Heating Mode
3	Cooling Mode
4	Ventilation only mode (Function not active)
5	Temperature setpoint (18°C <t<30°c)< th=""></t<30°c)<>
6	Command transmission in progress
7	Temperature unit
8	Automatic fan speed
9	Minimum fan speed / Medium fan speed / Maximum fan speed
10	ON
11	OFF
12	Address
13	Parity - Baud rate

4.3.3. MODBUS PARAMETER MODIFICATION

The IR remote control is used for setting the parameters of the MODBUS communication protocol:

- > Address
- ➤ Parity bits
- > Transmission speed.



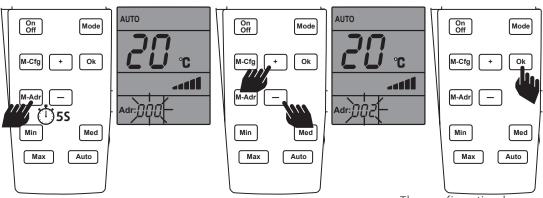




Caution

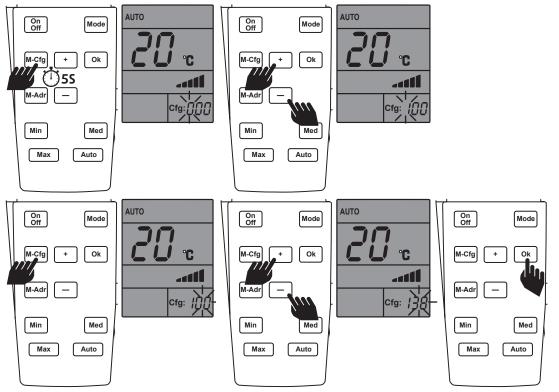
The green LED flashes for 20 seconds. During this period, changes can be made. The three parameters (Address, Parity and Speed) are updated during the validation phase. The unit must be rebooted for the parameter changes to be effective.

4.3.3.1. ADDRESSING



The confirmation beep sounds.

4.3.3.2. PARITY/SPEED



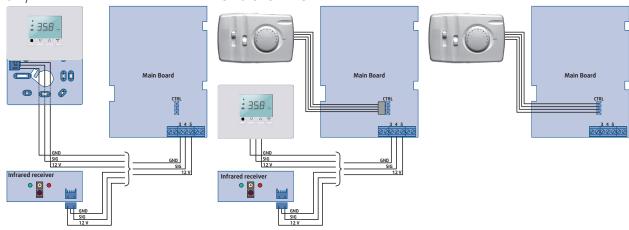
The confirmation beep sounds.

5. MANAGEMENT OF THE FAN COILS AND CONNECTIVITY

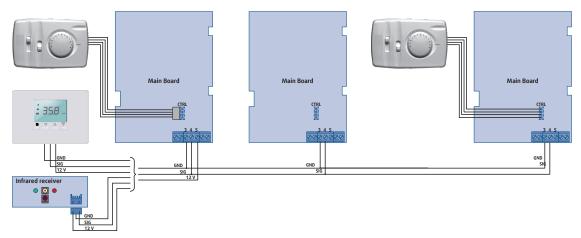
5.1. MANAGEMENT INDIVIDUALLY WITHOUT BMS

Control with **MRC/WRC** remote only

Control with **WRC** remote terminal Control with **BRC** remote terminal terminal or infrared remote control or infrared remote control and **BRC** only remote terminal



5.2. MANAGEMENT BY ZONES WITHOUT BMS



By way of a summary of the concepts expressed in preceding paragraphs, with reference to the figure above, the situations described below would be possible.

- > One single, "stand-alone" unit could be equipped with a MRC/WRC remote terminal or infrared remote control.
- ➤ In the case of a single fan coil, it would also be possible to use the **BRC** remote terminal in conjunction with the **WRC** remote terminal or infrared remote control (case 2). The **BRC** remote terminal would make it possible to increase/decrease the control parameters set on the WRC remote terminal.
- > If multiple units are interconnected in a "zone", the presence of a (single) MRC/WRC remote terminal or infrared remote control, becomes mandatory. At most, the other units would be equipped with a **BRC** remote terminal. It is not permissible for a zone to consist only of units with **BRC** remote terminal
- > It is possible for a network of fan coils to consist of units equipped with AC and / or EC motors. The different fan coil can also have different set up of the 3-dip switches.



Caution

A single water sensor must be installed per zone, on the first fan convector unit.



Caution

15 cards maximum, a greater number could set off a fire.

5.3. MANAGEMENT WITH BMS

5.3.1. ACCESS VIA BMS

All the addresses below must be filled in:

Description		M.U.	Min	Max	Default	Туре	Gain	Adress
BMS status	0 = OFF 1 = ON (confirmed ON status) 2 = ON (forced from OFF status)	enum	0	2	0	enum	1	1096
BMS mode	0 = Cooling 1 = Heating 2 = auto	enum	0	2	0	enum	1	1097
Setpoint	Setpoint imposed by the BMS only if 1102 & 1103 = 1	°C	16	30	0	UW	0.1	1099
Priority on the ambient temperature setpoint	0 = HMI 1 = BMS	enum	0	1	0	enum	1	1102
BMS priority	0 = False 1 = True	enum	0	1	0	enum	1	1103

It is imperative that the value of address 1103 is 1 for the GTB to have write priority. The GTB can override the operating status (OFF, COOLING, HEATING, AUTO) of the unit and adjust the reference set-point temperature. The adjustment from the GTB will have priority over the setting from the **MRC/WRC** remote control or infrared remote control.

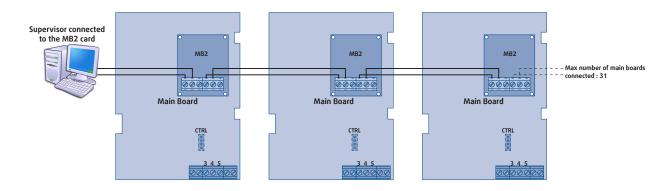
Address 1096 is important for the ON/OFF control of the fan convector unit.

- ➤ If the unit is overridden to "OFF" mode by the GTB (1096 = 0), it will not be possible to switch it on using the MRC/WRC remote control or infrared remote control. This situation will be indicated by the ON/OFF icon + nEt message.
- ➤ If the unit is overridden to "ON" mode by the GTB (1096 = 1), it will not be possible to switch it off using the MRC/WRC remote control or infrared remote control.
- ➤ If the unit is overridden to "ON" mode by the GTB (1096 = 2), it will not be possible to switch it off using the MRC/WRC remote control or infrared remote control.

Address 1102 enables the GTB to modify the set-point, this value must be entered in address 1099 with a gain of 0.1.

If the GTB is used to set the temperature set-point, the **MRC/WRC** remote control display will alternate between the "nEt" string and the regulated temperature. For an IR remote control, this information is sent via an audible signal. This temperature cannot be changed by acting at the level of the **MRC/WRC** remote control or infrared remote control. In this case, the only action the user can perform is to adjust the fan speed.

5.3.2. GTB MANAGEMENT ONLY



Each network is limited to 31 units and a distance of 1,000 meters. However, we recommend using a repeater well before reaching the limits and in accordance with the geographical constraints.

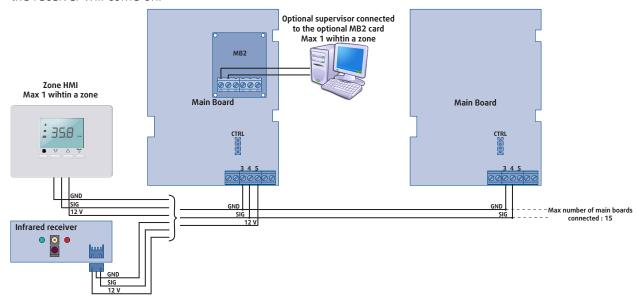


Caution

After an idle time of the GTB longer than 5 minutes, all the registers listed above will be reset to "0". A query must be made at least every 4min50 for the communication not to be interrupted.

5.3.3. MANAGEMENT BY ZONES

The board to which the supervision module is connected must share the information with the other boards in the zone, whose behaviour will be consistent with the cases cited thus far. The supervision module will set the cell's operating status to "ON" or "OFF". If it is set to OFF, this information must be transferred to the LCD board, which will display it be causing the "OFF" icon to blink. For an IR remote control, the red LED on the receiver will come on.





Caution

Within a zone of fan coils only one modbus access point.

It must be emphasized that it's not possible to have a cell of fan coils without a MRC/WRC remote terminal or infrared remote control (even if there is a supervision even if there is a supervision module that provides the operating setpoints) This is due to the network architecture, according to which the main power boards are only and always slaves in the communication.



Caution

It's either the MRC/WRC remote terminal or the supervision that allows you to change set points but not both. The initial configuration gives priority to the MRC/WRC remote terminalor infrared remote control.

6. PARAMETER TABLE MODBUS

6.1. CONFIGURATION PARAMETERS

PAR.	Description	M.U.	Min	Max	Default	MODBUS		Modifiable via	
						Туре	Gain	Adress*	MRC/WRC
P00	Septpoint differential	°C / °F	0.2	2	0.5	UW	0.1	40002	V
P01	Auto-changeover deadband	°C / °F	1	5	3	UW	0.1	40003	/
P02	Temperature unit: 0 = Celsius 1 = Farenheit	enum	0	1	0	enum	1	40023	~
P05	Offset air temperature (heating mode)	°C / °F	-5	5	0	SW	0.1	40004	X
P06	Offset air temperature (cooling mode)	°C / °F	-5	5	0	SW	0.1	40005	X
Pdi	Digital input polarity 1 0 = Normally open 1 = Normally closed	enum	0	1	1	В	1	40024	X
P09	Temperature setpoint for electrical heater	°C / °F	30	122	40	UW	0.1	40006	V
P10	Temperature hysteresis for electrical heater	°C / °F	0.4	2	2	UW	0.1	40007	V
P11	Temperature setpoint	°C / °F	P23	P24	21	UW	0.1	40008	V
P18	Reduced mode offset	°C / °F	1	15	3	UW	0.1	40009	V
P19	Fan ON time in heating mode	min	0	900	1	UW	1	40010	V
P20	Fan OFF time in heating mode	min	0	900	20	UW	1	40011	V
P21	Fan ON time in cooling mode	min	0	900	1	UW	1	40012	V
P22	Fan OFF time in cooling mode	min	0	900	20	UW	1	40013	V
P29	Water valve OFF time	sec	1	900	600	UW	1	40014	V
P30	Water valve ON time	sec	0	900	240	UW	1	40015	V
Fdi	DI1 configuration: 0 = Eco mode 1 = ON/OFF	enum	0	1	1	UW	1	40025	X
P80	Set voltage EC motor - low speed	V/100	0	999	330	UW	1	40016	X
P81	Set voltage EC motor - medium speed	V/100	0	999	660	UW	1	40017	X
P82	Set voltage EC motor - high speed	V/100	0	999	990	UW	1	40018	X
F-Adr	Slave address	-	1	247	1	UW	1	40020	V
F-bAU	Baud rate: 0 = 9600 1 = 19200 2 = 38400	-	0	2	0	UW	1	40021	V
F-PtY	Parity: 0 = none 1 = odd 2 = even	-	0	2	0	UW	1	40022	V
AtS	Reference temperature control probe: 0 = Aib (Entering air temperature) 1 = Ail (WRC/MRC/IR receiver) 2 = mean (Ail/Aib) 3 = heating: Ail, cooling mean	enum	0	3	1	UW	0.1	40027	x
FaN	Ventilation speed: 1 = MIN 2 = MED 3 = MAX 4 = AUTO	enum	1	4	1	UW	1	40019	x
ECO	Override the ECO mode 0 = eco OFF 1 = eco ON	enum	0	1	0	UW	1	40028	×

^{*} Addresses are of the holding registers type.

After modification of MODBUS address, the new "Adr" value become actual only if MB2 module (586507 part number) have been properly recognized.

Without MB2 module the valid MODBUS address is always the default one: 1.



Caution

To override the ECO mode, the Fdi parameter must be set to 0 (Eco)

6.2. STATUS PARAMETERS

Description		IS	Can be consulted	
		Gain	Address*	via MRC/WRC
Room temperature set-point	UW	0.1	1239	rEA
Water temperature (WPT)	UW	0.4	1157	H₂O
Air temperature measured by the remote control (WRC/MRC)	UW	0.1	1066	AiL
Air temperature measured by the air return sensor (RAT)	UW	0.1	1156	Aib
Current operating mode 0 = cooling mode 1 = heating mode 2 = auto change-over mode	enum	1	40001	H_C
Valve 1 position (Out1)	enum	1	1164	X
Valve 2 position (Out2)	enum	1	1165	X
Fan speed 1 = LS 2 = MS 3 = HS	enum	1	1166	×
Digital input 0 = OFF 4 = ON	enum	1	1163	×
ON/OFF 0 = OFF 1 = ON	enum	1	1227	×

^{*} Addresses are of the holding registers type.

7. DIAGNOSTICS

Display	Alarm detected	Effects	Remedy		
E03	Water probe fault	Hot Start and Too Cool functions not working	Check probe type Check probe wiring Replace water probe		
E04	RAT or RCT air sensor error	The MRC/WRC remote control transfers the operating parameters, but not the room temperature	Replace the RAT air sensor Replace the MRC/WRC remote control sensor		
E05	Communication error Several water sensors connected in a master/slave configuration Wiring error on the SYSLOGIC card	The unit goes into Stand-by mode	Check the SYSLOGIC card wiring. Check that only one water sensor is connected for a master/slave installation		
Mode LED () flashing	Digital contact activated	The unit goes into Stand-by mode	Check the wiring and configuration of the digital input DI Depending on your installation, check the operation of the condensate pump that the windows close properly		
Ventilation LEDs flashing	Water temperature unsuitable for the operating mode	Ventilation stops	Check the water temperature of the supply circuit Check the sensor wiring Replace the water sensor		



Information

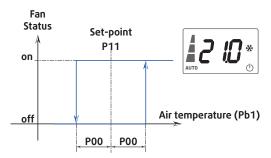
Errors can be displayed on a MRC/WRC remote terminal only

8. OPERATING MODE

8.1. ROOM TEMPERATURE CONTROL

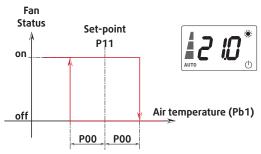
The room air temperature is controlled by the opening or closing of the valve (if installed) and the activation or deactivation of the ventilation.

8.1.1. FAN





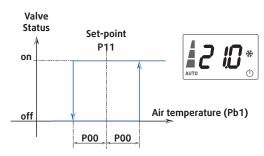
Water inlet temperature < 18°C

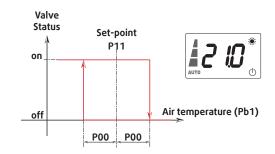




Water inlet temperature > 30°C

8.1.2. VALVE



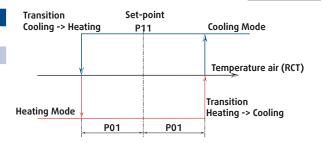


8.2. AUTO MODE

This setting is enabled by default.

The set-point (P11) is 21°C by default. The fancoil switches automatically from Heating mode to Cooling mode. The rule for transition is described in the table.

Mode	Condition
Heating	T _{air} (RCT) ≤ (P11 - P01)
Cooling	$T_{air}(RCT) \ge (P11 + P01)$
Neutral Zone*	(P11- P01) < T _{air} (RCT) < (P11 + P01)





Caution

If the ambient temperature is in the neutral zone* when the system is switched on, the fancoil will change the operating mode depending on the value of water temperature.

9. RESPONSIBILITY AND RESIDUAL RISKS

We accept no responsibility for loss/damage due to:

- ➤ Installation/uses other than those expressly specified and, in particular, failure to comply with the safety requirements of established standards and/or instructions specified in this document;
- > use of the main board that do not provide adequate protection against electric shocks, water or dust when assembled
- > use of the main board allowing access to dangerous parts without having to use tools.
- > Tampering with and/or modification of the product;
- > Installation/use on panels which are not compliant with current standards and regulations.

10. CONDITIONS OF USE

10.1. PERMITTED USE

For safety reasons, the device must be installed and used in accordance with the instructions provided. In particular, parts carrying dangerous voltages must not be accessible under normal conditions. The device must be adequately protected from water and dust with regard to the application, and must only be accessible using tools (with the exception of the front panel).

The device is suitable for use in household appliances and has been safety-tested in accordance with the harmonised European reference standards.

10.2. PROHIBITED USE

Any use other than that expressly permitted is prohibited.

The relay contacts provided are mechanical and subject to failure: any protection devices required by product standards, or suggested by good practice in view of obvious safety requirements, must be installed externally of the controller.

11. DISPOSAL



The equipment (or product) must be subjected to separate waste collection in compliance with the local legislation on waste disposal.

As part of our ongoing product improvement programme, our products are subject to change without prior notice. Non contractual photos.

Systemair AC SAS

Route de Verneuil 27570 Tillières-sur-Avre FRANCE

©: +33 (0)2 32 60 61 00 =: +33 (0)2 32 32 55 13



IOM LOGIC 02-N-3GB
Part number : JS81571GB
Supersedes : IOM LOGIC 02-N-2GB