Tabela 1. Adresy ModBus – cz1

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **APP Variable** | **index** | **modbus address** |  | **Data type** | **Value** | **Remark** |
| Tryb | 0 | 40001 | 1 | INT | 0-4 | 0:Chłodzenie;  1:Ogrzewania;  2:CWU ;  3:Chłodzenie+CWU; 4:Ogrzewanie+CWU; |
| GrzanieNastawa | 1 | 40002 | 1 | REAL | 10.0 - 55.00 |  |
| ChłodzenieNastawa | 2 | 40003 | 1 | REAL | 12.00 - 25.00 |  |
| CWUNastawa | 3 | 40004 | 1 | REAL | 10.00 - 60.00 |  |
| WłączonyOdczyt | 0 | 10001 | 1 | BOOL |  |  |
| Status | 217 | 40218 | 1 | INT | 0-10 | 0:Przygotowanie;1:Praca;2:Stop Alarm;3:Stop Timer;4:Stop Obsługa;5:Stop Sterowanie.;6:Stop;7:Tryb Ręczny;8:Antyzamarzanie;9:Stop AC linkage;10:Zmiana Trybu; |
| Włączony | 40 | 00041 | 1 | BOOL |  | 0：Wył 1：Wł |
| Temperatura | 216 | 40217 | 1 | REAL |  |  |
| Funkcja | 215 | 40216 | 1 | INT |  | 0：Chłodzenie 1：Ogrzewanie 2：CWU |
| TrybWentylatora | 12 | 40013 | 1 | INT | 0-3 | 0:Dzień;1:Noc;2:KrzywaGrzewcza;3:Serwisowy; |
| PompaObiegowaStan | 178 | 10179 | 1 | BOOL |  |  |
| SprężarkaStan | 179 | 10180 | 1 | BOOL |  |  |
| WentylatorStan | 180 | 10181 | 1 | BOOL |  |  |

Tabela2. Adresy ModBus – cz 2 Parametry

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **APP Variable** | **index** | **modbus address** |  | **Data type** | **Value** | **Remark** |
| Temperatura Powrotu | 188 | 40189 | 1 | REAL |  |  |
| Temperatura Zasilania | 189 | 40190 | 1 | REAL |  |  |
| Temperatura Zewnętrzna | 190 | 40191 | 1 | REAL |  |  |
| Temperatura Sprężania | 191 | 40192 | 1 | REAL |  |  |
| Temperatura Ssania | 192 | 40193 | 1 | REAL |  |  |
| Ciśnienie Sprężania | 193 | 40194 | 1 | REAL |  |  |
| Ciśnienie Ssania | 194 | 40195 | 1 | REAL |  |  |
| Temperatura CWU | 195 | 40196 | 1 | REAL |  |  |
| Temperatura Parownika | 196 | 40197 | 1 | REAL |  |  |
| Czujnik Przepływu | 1 | 10002 | 1 | BOOL |  |  |
| WE Sterowania Zewn | 2 | 10003 | 1 | BOOL |  |  |
| WE Sterowania AC | 3 | 10004 | 1 | BOOL |  |  |
| WE Chłodzenie | 181 | 10182 | 1 | BOOL |  |  |
| WE Faza Zasilania | 4 | 10005 | 1 | BOOL |  |  |
| WE Ogrzewania | 182 | 10183 | 1 | BOOL |  |  |
| WY Wysoka Prędk. Wentylatora | 5 | 10006 | 1 | BOOL |  |  |
| WY Niska Prędk. Wentylatora | 6 | 10007 | 1 | BOOL |  |  |
| WY Zawór 4 Drogowy | 7 | 10008 | 1 | BOOL |  |  |
| WY Pompa Obiegowa | 8 | 10009 | 1 | BOOL |  |  |
| WY: Grzałka Obudowy | 9 | 10010 | 1 | BOOL |  |  |
| WY: Grzałka Spręzarki | 10 | 10011 | 1 | BOOL |  |  |
| WY: Zawór Trójdrogowy | 11 | 10012 | 1 | BOOL |  |  |
| WY: Pompa Obiegowa 2 | 183 | 10184 | 1 | BOOL |  |  |
| WY: Grzałka | 12 | 10013 | 1 | BOOL |  |  |
| Y1: Wentylator Nastawa | 197 | 40198 | 1 | REAL |  |  |
| Y3: PWM Pompa Obiegowa | 198 | 40199 | 1 | REAL |  |  |
| Wentylator 1 Sterowanie | 199 | 40200 | 1 | INT |  |  |
| Wentylator 1 Pomiar | 200 | 40201 | 1 | INT |  |  |
| Wentylator 2 Sterowanie | 201 | 40202 | 1 | INT |  |  |
| Wentylator 2 Pomiar | 202 | 40203 | 1 | INT |  |  |
| Zawór EEV | 207 | 40208 | 1 | INT |  |  |
| Wymagana Wydajność | 203 | 40204 | 1 | REAL |  |  |
| Aktualna Wydajność | 204 | 40205 | 1 | REAL |  |  |
| Obroty Sprężarki | 205 | 40206 | 1 | REAL |  |  |
| Status | 209 | 40210 | 1 | INT |  | 0:OK 1:Sterowanie 2:Graniczny |
| Zabezpieczenie | 210 | 40211 | 1 | INT |  | 0:OK 1:OK 2:Niskie przegrzanie 3:Niskie Ciśnienie 4:Wysokie Ciśnienie 5:Wysoka Temp Skraplacza |
| Przegrzanie | 211 | 40212 | 1 | REAL |  |  |
| Moc Pobierana W | 333 | 40334 | 1 | real |  |  |
| Napięcie Falownika V | 334 | 40335 | 1 | int |  |  |
| Prąd Falowika A | 335 | 40336 | 1 | real |  |  |

Tabela 3. Adresy ModBus – cz 3 Nastawy

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **APP Variable** | **index** | **modbus address** |  | **Data type** | **Value** | **Remark** |
| Tryb | 0 | 40001 | 1 | INT | 0-4 | 0:Chłodzenie;  1:Ogrzewania;  2:CWU ;  3:Chłodzenie+CWU; 4:Ogrzewanie+CWU; |
| Temperatura Grzanie | 1 | 40002 | 1 | REAL | 10.0 - 55.00 |  |
| Temperatura Chłodzenie | 2 | 40003 | 1 | REAL | 12.00 - 25.00 |  |
| Histereza Start | 6 | 40007 | 1 | REAL | 1.0~15.0 |  |
| Histereza Stop | 7 | 40008 | 1 | REAL | 0.0~5.0 |  |
| Temperatura CWU | 3 | 40004 | 1 | REAL | 10.00 - 60.00 |  |
| CWU Histereza Start | 4 | 40005 | 1 | REAL | 1.0~15.0 |  |
| CWU Histereza Stop | 5 | 40006 | 1 | REAL | 0.0~5.0 |  |
| Tryb Pompy Obiegowej | 11 | 40012 | 1 | int | 0~2 | 0: Ciągła; 1:Zewnętrzne Ster; 2:Interwał |
| Auto Start | 2 | 00003 | 1 | bool |  |  |
| Tryb CWU | 42 | 00043 | 1 | BOOL | 0~1 | 0：Włączony 1：Wyłączony |
| Grzałka | 323 | 40324 | 1 | INT | 0-3 | 0：Wyłączona 1：CWU 2：Grzanie 3：Wszystko |
| Podgrzewacz sprężarki | 1 | 00002 | 1 | bool |  |  |
| Max Pred Sprężarki TrybNocny | 263 | 40264 | 1 | real | 0.0~80 |  |
| Max Pred Wentylat TrybNocny | 264 | 40265 | 1 | real | 0-1000.0 |  |
| Reset parametrów | 57 | 00058 | 1 | bool |  | 0：NIE 1：TAK |

Tabela 4. Adresy ModBus – ustawienie krzywej grzewczej

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **APP Variable** | **index** | **modbus address** |  | **Data type** | **Value** | **Remark** |
| Chłodz. TempZewn. X1 | 276 | 40277 | 1 | real | -99.9~99.9 |
| Chlodz .TempWoda Y2 | 288 | 40289 | 1 | real | -99.9~99.9 |
| Chłodz. TempZewn. X2 | 277 | 40278 | 1 | real | -99.9~99.9 |
| Chlodz .TempWoda Y3 | 289 | 40290 | 1 | real | -99.9~99.9 |
| Chłodz. TempZewn. X3 | 278 | 40279 | 1 | real | -99.9~99.9 |
| Chłodz .TempWoda Y4 | 290 | 40291 | 1 | real | -99.9~99.9 |
| Chłodz. TempZewn. X4 | 279 | 40280 | 1 | real | -99.9~99.9 |
| Ogrzew. TempZewn X1 | 280 | 40281 | 1 | real | -99.9~99.9 |
| Ogrzew .TempWoda Y1 | 291 | 40292 | 1 | real | -99.9~99.9 |
| Ogrzew. TempZewn. X2 | 281 | 40282 | 1 | real | -99.9~99.9 |
| Ogrzew .TempWoda Y2 | 292 | 40293 | 1 | real | -99.9~99.9 |
| Ogrzew. TempZewn. X3 | 282 | 40283 | 1 | real | -99.9~99.9 |
| Ogrzew .TempWoda Y3 | 293 | 40294 | 1 | real | -99.9~99.9 |
| Ogrzew. TempZewn. X4 | 283 | 40284 | 1 | real | -99.9~99.9 |
| CWU TempZewn. X1 | 284 | 40285 | 1 | real | -99.9~99.9 |
| CWU TempWoda Y1 | 294 | 40295 | 1 | real | -99.9~99.9 |
| CWU TempZewn. X2 | 285 | 40286 | 1 | real | -99.9~99.9 |
| CWU TempWoda Y2 | 295 | 40296 | 1 | real | -99.9~99.9 |
| CWU TempZewn. X3 | 286 | 40287 | 1 | real | -99.9~99.9 |
| CWU TempWoda Y3 | 296 | 40297 | 1 | real | -99.9~99.9 |
| CWU TempZewn. X4 | 287 | 40288 | 1 | real | -99.9~99.9 |

Tabela 5. Adresy ModBus – Funkcje czasowe

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **APP Variable** | **index** | **modbus address** |  | **Data type** | **Value** | **Remark** |
| Rok | 182 | 40183 | 1 | UINT | 0~99 |  |
| Miesiąc | 183 | 40184 | 1 | UINT | 0~12 |  |
| Dzień | 184 | 40185 | 1 | UINT | 0~31 |  |
| Godzina | 185 | 40186 | 1 | UINT | 0~23 |  |
| Minuta | 186 | 40187 | 1 | UINT | 0~59 |  |
| Dzień Tygodnia | 187 | 40188 | 1 | UINT | 1~7 | 1: Poniedziałek; 2:Wtorek; 3:Środa; 4: Czwartek; 5: Piątek; 6: Sobota; 7: Niedziela |
| Plan Tygodniowy | 38 | 00039 | 1 | bool |  |  |
| Poniedziałek Godz.Wł. | 218 | 40219 | 1 | INT | 0-23 |  |
| Poniedziałek Min.Wł | 219 | 40220 | 1 | INT | 0-59 |  |
| Poniedziałek Godz.Wył. | 232 | 40233 | 1 | INT | 0-23 |  |
| Poniedziałek Min.Wył | 233 | 40234 | 1 | INT | 0-59 |  |
| Wtorek Godz.Wł. | 220 | 40221 | 1 | INT | 0-23 |  |
| Wtorek Min.Wł. | 221 | 40222 | 1 | INT | 0-59 |  |
| Wtorek Godz.Wył. | 234 | 40235 | 1 | INT | 0-23 |  |
| Wtorek Min.Wył. | 235 | 40236 | 1 | INT | 0-59 |  |
| Środa Godz.Wł. | 222 | 40223 | 1 | INT | 0-23 |  |
| Środa Min.Wł | 223 | 40224 | 1 | INT | 0-59 |  |
| Środa Godz.Wył. | 236 | 40237 | 1 | INT | 0-23 |  |
| Środa Min.Wył | 237 | 40238 | 1 | INT | 0-59 |  |
| Czwartek Godz.Wł. | 224 | 40225 | 1 | INT | 0-23 |  |
| Czwartek Min.Wł | 225 | 40226 | 1 | INT | 0-59 |  |
| Czwartek Godz.Wył. | 238 | 40239 | 1 | INT | 0-23 |  |
| Czwartek Min.Wył | 239 | 40240 | 1 | INT | 0-59 |  |
| Piątek Godz,Wł. | 226 | 40227 | 1 | INT | 0-23 |  |
| Piątek Min.Wł. | 227 | 40228 | 1 | INT | 0-59 |  |
| Piątek Godz,Wył. | 240 | 40241 | 1 | INT | 0-23 |  |
| Piątek Min.Wył. | 241 | 40242 | 1 | INT | 0-59 |  |
| Sobota Godz.Wł. | 228 | 40229 | 1 | INT | 0-23 |  |
| Sobota Min.Wł | 229 | 40230 | 1 | INT | 0-59 |  |
| Sobota Godz.Wył. | 242 | 40243 | 1 | INT | 0-23 |  |
| Sobota Min.Wył | 243 | 40244 | 1 | INT | 0-59 |  |
| Niedziela Godz.Wł | 230 | 40231 | 1 | INT | 0-23 |  |
| Niedziela Min.Wł | 231 | 40232 | 1 | INT | 0-59 |  |
| Niedziela Godz.Wył | 244 | 40245 | 1 | INT | 0-23 |  |
| Niedziela Min.Wył | 245 | 40246 | 1 | INT | 0-59 |  |
| Plan Godzinowy | 39 | 00040 | 1 | bool |  |  |
| Godz. | 246 | 40247 | 1 | INT | 0-23 |  |
| Min. | 247 | 40248 | 1 | INT | 0-59 |  |
| Temp.Chłodzenia | 248 | 40249 | 1 | REAL | -99.0~99.0 |  |
| Temp.Ogrzewania | 249 | 40250 | 1 | REAL | -99.0~99.0 |  |
| Godz. | 250 | 40251 | 1 | INT | 0-95 |  |
| Min. | 251 | 40252 | 1 | INT | 0-131 |  |
| Temp.Chłodzenia | 252 | 40253 | 1 | REAL | -99.0~99.0 |  |
| Temp.Ogrzewania | 253 | 40254 | 1 | REAL | -99.0~99.0 |  |
| Godz. | 254 | 40255 | 1 | INT | 0-167 |  |
| Min. | 255 | 40256 | 1 | INT | 0-203 |  |
| Temp.Chłodzenia | 256 | 40257 | 1 | REAL | -99.0~99.0 |  |
| Temp.Ogrzewania | 257 | 40258 | 1 | REAL | -99.0~99.0 |  |
| Godz. | 258 | 40259 | 1 | INT | 0-239 |  |
| Min. | 259 | 40260 | 1 | INT | 0-275 |  |
| Temp.Chłodzenia | 260 | 40261 | 1 | REAL | -99.0~99.0 |  |
| Temp.Ogrzewania | 261 | 40262 | 1 | REAL | -99.0~99.0 |  |

Tabela 7. Adresy ModBus - Alarmy

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Alarm reset | 41 | 00042 | 1 | BOOL |  |
|  | **index** | **modbus address** |  | **data type** |  |
| AL001 Too many mem writings | 13 | 10014 | 1 | BOOL |  |
| AL002 Retain mem write error | 14 | 10015 | 1 | BOOL |  |
| AL003 Inlet probe error | 15 | 10016 | 1 | BOOL |  |
| AL004 Outlet probe error | 16 | 10017 | 1 | BOOL |  |
| AL005 Ambient probe error | 17 | 10018 | 1 | BOOL |  |
| AL006 Condenser coil temp | 18 | 10019 | 1 | BOOL |  |
| AL007 Water flow switch | 19 | 10020 | 1 | BOOL |  |
| AL008 Phase sequ.prot.alarm | 20 | 10021 | 1 | BOOL |  |
| AL009 Unit work hour warning | 21 | 10022 | 1 | BOOL |  |
| AL010 Pump work hour warning | 22 | 10023 | 1 | BOOL |  |
| AL011 Comp.work hour warning | 23 | 10024 | 1 | BOOL |  |
| AL012 Cond.fan work hourWarn | 24 | 10025 | 1 | BOOL |  |
| AL013 Low superheat - Vlv.A | 25 | 10026 | 1 | BOOL |  |
| AL014 Low superheat - Vlv.B | 26 | 10027 | 1 | BOOL |  |
| AL015 LOP - Vlv.A | 27 | 10028 | 1 | BOOL |  |
| AL016 LOP - Vlv.B | 28 | 10029 | 1 | BOOL |  |
| AL017 MOP - Vlv.A | 29 | 10030 | 1 | BOOL |  |
| AL018 MOP - Vlv.B | 30 | 10031 | 1 | BOOL |  |
| AL019 Motor error - Vlv.A | 31 | 10032 | 1 | BOOL |  |
| AL020 Motor error - Vlv.B | 32 | 10033 | 1 | BOOL |  |
| AL021 Low suct.temp. - Vlv.A | 33 | 10034 | 1 | BOOL |  |
| AL022 Low suct.temp. - Vlv.B | 34 | 10035 | 1 | BOOL |  |
| AL023 High condens.temp.EVD | 35 | 10036 | 1 | BOOL |  |
| AL024 Probe S1 error EVD | 36 | 10037 | 1 | BOOL |  |
| AL025 Probe S2 error EVD | 37 | 10038 | 1 | BOOL |  |
| AL026 Probe S3 error EVD | 38 | 10039 | 1 | BOOL |  |
| AL027 Probe S4 error EVD | 39 | 10040 | 1 | BOOL |  |
| AL028 Battery discharge EVD | 40 | 10041 | 1 | BOOL |  |
| AL029 EEPROM alarm EVD | 41 | 10042 | 1 | BOOL |  |
| AL030 Incomplete closing EVD | 42 | 10043 | 1 | BOOL |  |
| AL031 Emergency closing EVD | 43 | 10044 | 1 | BOOL |  |
| AL032 FW not compatible EVD | 44 | 10045 | 1 | BOOL |  |
| AL033 Config. error EVD | 45 | 10046 | 1 | BOOL |  |
| AL034 EVD Driver offline | 46 | 10047 | 1 | BOOL |  |
| AL035 BLDC-alarm:High startup DeltaP | 47 | 10048 | 1 | BOOL |  |
| AL036 BLDC-alarm:Compressor shut off | 48 | 10049 | 1 | BOOL |  |
| AL037 BLDC-alarm:Out of Envelope | 49 | 10050 | 1 | BOOL |  |
| AL038 BLDC-alarm:Starting fail wait | 50 | 10051 | 1 | BOOL |  |
| AL039 BLDC-alarm:Starting fail exceeded | 51 | 10052 | 1 | BOOL |  |
| AL040 BLDC-alarm:Low delta pressure | 52 | 10053 | 1 | BOOL |  |
| AL041 BLDC-alarm:High discarge gas temp | 53 | 10054 | 1 | BOOL |  |
| AL042 Envelope-alarm:High compressor ratio | 54 | 10055 | 1 | BOOL |  |
| AL043 Envelope-alarm:High discharge press. | 55 | 10056 | 1 | BOOL |  |
| AL044 Envelope-alarm:High current | 56 | 10057 | 1 | BOOL |  |
| AL045 Envelope-alarm:High suction pressure | 57 | 10058 | 1 | BOOL |  |
| AL046 Envelope-alarm:Low compressor ratio | 58 | 10059 | 1 | BOOL |  |
| AL047 Envelope-alarm:Low pressure diff. | 59 | 10060 | 1 | BOOL |  |
| AL048 Envelope-alarm:Low discharge pressure | 60 | 10061 | 1 | BOOL |  |
| AL049 Envelope-alarm:Low suction pressure | 61 | 10062 | 1 | BOOL |  |
| AL050 Envelope-alarm:High discharge temp. | 62 | 10063 | 1 | BOOL |  |
| AL051 Power+ alarm:01-Overcurrent | 63 | 10064 | 1 | BOOL |  |
| AL052 Power+ alarm:02-Motor overload | 64 | 10065 | 1 | BOOL |  |
| AL053 Power+ alarm:03-DCbus overvoltage | 65 | 10066 | 1 | BOOL |  |
| AL054 Power+ alarm:04-DCbus undervoltage | 66 | 10067 | 1 | BOOL |  |
| AL055 Power+ alarm:05-Drive overtemp. | 67 | 10068 | 1 | BOOL |  |
| AL056 Power+ alarm:06-Drive undertemp. | 68 | 10069 | 1 | BOOL |  |
| AL057 Power+ alarm:07-Overcurrent HW | 69 | 10070 | 1 | BOOL |  |
| AL058 Power+ alarm:08-Motor overtemp. | 70 | 10071 | 1 | BOOL |  |
| AL059 Power+ alarm:09-IGBT module error | 71 | 10072 | 1 | BOOL |  |
| AL060 Power+ alarm:10-CPU error | 72 | 10073 | 1 | BOOL |  |
| AL061 Power+ alarm:11-Parameter default | 73 | 10074 | 1 | BOOL |  |
| AL062 Power+ alarm:12-DCbus ripple | 74 | 10075 | 1 | BOOL |  |
| AL063 Power+ alarm:13-Data comm. Fault | 75 | 10076 | 1 | BOOL |  |
| AL064 Power+ alarm:14-Thermistor fault | 76 | 10077 | 1 | BOOL |  |
| AL065 Power+ alarm:15-Autotuning fault | 77 | 10078 | 1 | BOOL |  |
| AL066 Power+ alarm:16-Drive disabled | 78 | 10079 | 1 | BOOL |  |
| AL067 Power+ alarm:17-Motor phase fault | 79 | 10080 | 1 | BOOL |  |
| AL068 Power+ alarm:18-Internal fan fault | 80 | 10081 | 1 | BOOL |  |
| AL069 Power+ alarm:19-Speed fault | 81 | 10082 | 1 | BOOL |  |
| AL070 Power+ alarm:20-PFC module error | 82 | 10083 | 1 | BOOL |  |
| AL071 Power+ alarm:21-PFC overvoltage | 83 | 10084 | 1 | BOOL |  |
| AL072 Power+ alarm:22-PFC undervoltage | 84 | 10085 | 1 | BOOL |  |
| AL073 Power+ alarm:23-STO DetectionError | 85 | 10086 | 1 | BOOL |  |
| AL074 Power+ alarm:24-STO DetectionError | 86 | 10087 | 1 | BOOL |  |
| AL075 Power+ alarm:25-Ground fault | 87 | 10088 | 1 | BOOL |  |
| AL076 Power+ alarm:26-Internal error 1 | 88 | 10089 | 1 | BOOL |  |
| AL077 Power+ alarm:27-Internal error 2 | 89 | 10090 | 1 | BOOL |  |
| AL078 Power+ alarm:28-Drive overload | 90 | 10091 | 1 | BOOL |  |
| AL079 Power+ alarm:29-uC safety fault | 91 | 10092 | 1 | BOOL |  |
| AL080 Power+ alarm:98-Unexpected restart | 92 | 10093 | 1 | BOOL |  |
| AL081 Power+ alarm:99-Unexpected stop | 93 | 10094 | 1 | BOOL |  |
| AL082 Power+ safety alarm:01-Current meas.fault | 94 | 10095 | 1 | BOOL |  |
| AL083 Power+ safety alarm:02-Current unbalanced | 95 | 10096 | 1 | BOOL |  |
| AL084 Power+ safety alarm:03-Over current | 96 | 10097 | 1 | BOOL |  |
| AL085 Power+ safety alarm:04-STO alarm | 97 | 10098 | 1 | BOOL |  |
| AL086 Power+ safety alarm:05-STO hardware alarm | 98 | 10099 | 1 | BOOL |  |
| AL087 Power+ safety alarm:06-PowerSupply missing | 99 | 10100 | 1 | BOOL |  |
| AL088 Power+ safety alarm:07-HW fault cmd.buffer | 100 | 10101 | 1 | BOOL |  |
| AL089 Power+ safety alarm:08-HW fault heater c. | 101 | 10102 | 1 | BOOL |  |
| AL090 Power+ safety alarm:09-Data comm. Fault | 102 | 10103 | 1 | BOOL |  |
| AL091 Power+ safety alarm:10-Compr. stall detect | 103 | 10104 | 1 | BOOL |  |
| AL092 Power+ safety alarm:11-DCbus over current | 104 | 10105 | 1 | BOOL |  |
| AL093 Power+ safety alarm:12-HWF DCbus current | 105 | 10106 | 1 | BOOL |  |
| AL094 Power+ safety alarm:13-DCbus voltage | 106 | 10107 | 1 | BOOL |  |
| AL095 Power+ safety alarm:14-HWF DCbus voltage | 107 | 10108 | 1 | BOOL |  |
| AL096 Power+ safety alarm:15-Input voltage | 108 | 10109 | 1 | BOOL |  |
| AL097 Power+ safety alarm:16-HWF input voltage | 109 | 10110 | 1 | BOOL |  |
| AL098 Power+ safety alarm:17-DCbus power alarm | 110 | 10111 | 1 | BOOL |  |
| AL099 Power+ safety alarm:18-HWF power mismatch | 111 | 10112 | 1 | BOOL |  |
| AL100 Power+ safety alarm:19-NTC over temp. | 112 | 10113 | 1 | BOOL |  |
| AL100 Power+ safety alarm:20-NTC under temp. | 113 | 10114 | 1 | BOOL |  |
| AL102 Power+ safety alarm:21-NTC fault | 114 | 10115 | 1 | BOOL |  |
| AL103 Power+ safety alarm:22-HWF sync fault | 115 | 10116 | 1 | BOOL |  |
| AL104 Power+ safety alarm:23-Invalid parameter | 116 | 10117 | 1 | BOOL |  |
| AL105 Power+ safety alarm:24-FW fault | 117 | 10118 | 1 | BOOL |  |
| AL106 Power+ safety alarm:25-HW fault | 118 | 10119 | 1 | BOOL |  |
| AL107 Power+ safety alarm:26-reseved | 119 | 10120 | 1 | BOOL |  |
| AL108 Power+ safety alarm:27-reseved | 120 | 10121 | 1 | BOOL |  |
| AL109 Power+ safety alarm:28-reseved | 121 | 10122 | 1 | BOOL |  |
| AL110 Power+ safety alarm:29-reseved | 122 | 10123 | 1 | BOOL |  |
| AL111 Power+ safety alarm:30-reseved | 123 | 10124 | 1 | BOOL |  |
| AL112 Power+ safety alarm:31-reseved | 124 | 10125 | 1 | BOOL |  |
| AL113 Power+ safety alarm:32-reseved | 125 | 10126 | 1 | BOOL |  |
| AL114 Power+ alarm:Power+ offline | 126 | 10127 | 1 | BOOL |  |
| AL115 EEV alarm:Low superheat | 127 | 10128 | 1 | BOOL |  |
| AL116 EEV alarm:LOP | 128 | 10129 | 1 | BOOL |  |
| AL117 EEV alarm:MOP | 129 | 10130 | 1 | BOOL |  |
| AL118 EEV alarm:High condens.temp. | 130 | 10131 | 1 | BOOL |  |
| AL119 EEV alarm:Low suction temp. | 131 | 10132 | 1 | BOOL |  |
| AL120 EEV alarm:Motor error | 132 | 10133 | 1 | BOOL |  |
| AL121 EEV alarm:Self Tuning | 133 | 10134 | 1 | BOOL |  |
| AL122 EEV alarm:Emergency closing | 134 | 10135 | 1 | BOOL |  |
| AL123 EEV alarm:Temperature delta | 135 | 10136 | 1 | BOOL |  |
| AL124 EEV alarm:Pressure delta | 136 | 10137 | 1 | BOOL |  |
| AL125 EEV alarm:Param.range error | 137 | 10138 | 1 | BOOL |  |
| AL126 EEV alarm:ServicePosit% err | 138 | 10139 | 1 | BOOL |  |
| AL127 EEV alarm:ValveID pin error | 139 | 10140 | 1 | BOOL |  |
| AL128 Niskei ciśnienie | 140 | 10141 | 1 | BOOL |  |
| AL129 Wysokie ciśnienie | 141 | 10142 | 1 | BOOL |  |
| AL130 Disc.temp.probe error | 142 | 10143 | 1 | BOOL |  |
| AL131 Suct.temp.probe error | 143 | 10144 | 1 | BOOL |  |
| AL132 Disc.press.probe error | 144 | 10145 | 1 | BOOL |  |
| AL133 Suct.press.probe error | 145 | 10146 | 1 | BOOL |  |
| AL134 Tank temp.probe error | 146 | 10147 | 1 | BOOL |  |
| AL135 EVI SuctT.probe error | 147 | 10148 | 1 | BOOL |  |
| AL136 EVI SuctP.probe error | 148 | 10149 | 1 | BOOL |  |
| AL137 Błąd Przepływomierza | 149 | 10150 | 1 | BOOL |  |
| AL138 High temp. alarm | 150 | 10151 | 1 | BOOL |  |
| AL139 Low temp. alarm | 151 | 10152 | 1 | BOOL |  |
| AL140 Temp.delta alarm | 152 | 10153 | 1 | BOOL |  |
| AL141 EVI alarm:Param.range error | 153 | 10154 | 1 | BOOL |  |
| AL142 EVI alarm:Low superheat | 154 | 10155 | 1 | BOOL |  |
| AL143 EVI alarm:LOP | 155 | 10156 | 1 | BOOL |  |
| AL144 EVI alarm:MOP | 156 | 10157 | 1 | BOOL |  |
| AL145 EVI alarm:High condens.temp. | 157 | 10158 | 1 | BOOL |  |
| AL146 EVI alarm:Low suction temp. | 158 | 10159 | 1 | BOOL |  |
| AL147 EVI alarm:Motor error | 159 | 10160 | 1 | BOOL |  |
| AL148 EVI alarm:Self Tuning | 160 | 10161 | 1 | BOOL |  |
| AL149 EVI alarm:Emergency closing | 161 | 10162 | 1 | BOOL |  |
| AL150 EVI alarm:ServicePosit% err | 162 | 10163 | 1 | BOOL |  |
| AL151 EVI alarm:ValveID pin error | 163 | 10164 | 1 | BOOL |  |
| AL152 Supply power error | 164 | 10165 | 1 | BOOL |  |
| AL153 Fan1 fault | 165 | 10166 | 1 | BOOL |  |
| AL154 Fan2 fault | 166 | 10167 | 1 | BOOL |  |
| AL155 Fans Offline | 167 | 10168 | 1 | BOOL |  |
| AL165 Slave1 Offline | 168 | 10169 | 1 | BOOL |  |
| AL166 Master Offline | 169 | 10170 | 1 | BOOL |  |
| AL167 Slave2 Offline | 170 | 10171 | 1 | BOOL |  |
| AL168 Slave3 Offline | 171 | 10172 | 1 | BOOL |  |
| AL169 Slave4 Offline | 172 | 10173 | 1 | BOOL |  |
| AL170 Slave5 Offline | 173 | 10174 | 1 | BOOL |  |
| AL171 Slave6 Offline | 174 | 10175 | 1 | BOOL |  |
| AL172 Slave7 Offline | 175 | 10176 | 1 | BOOL |  |
| AL173 Slave8 Offline | 176 | 10177 | 1 | BOOL |  |
| AL174 Slave9 Offline | 177 | 10178 | 1 | BOOL |  |

Parametry transmisji, domyślne

Baud rate 19200  
    Data bit 8  
    Check bit N  
    Stop bit 2  
    Slave address 1