

## CPU-2000 Modbus Boolean Registers

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;***  BOOLEAN REGISTERS DATA TABLE ***
;***      adjust comm mode of cpu2000 under setup screens ***
;***      port configurations (none,8,1)(even,8,1)(odd,8,1) ***
;***      baudrates 300,600,1200,2400,4800,9600,19200,38400 ***
;*** ***
;***  READ  FUNCTION  1 IS SUPPORTED FOR BOOLEAN REG 10001-10512 ***
;***  READ  FUNCTION  2 IS SUPPORTED FOR BOOLEAN REG 10001-10512 ***
;***  FORCE  FUNCTION  5 IS NOT SUPPORTED ***
;***  FORCE  FUNCTION 15 IS NOT SUPPORTED ***
;*** ***
;***  512 MODBUS FORMAT BOOLEANS ARE PROVIDED BY THIS STRUCTURE ***
;*** ***
;***  !!! NOTE !!! NOTE !!! NOTE !!! NOTE !!! NOTE !!! NOTE !!! ***
;***  BOOLEANS MUST BE REQUESTED ONLY IN BLOCKS OF 8 BITS ***
;***  valid examples: ***
;***      reading   8 bits starting at 10001  is VALID ***
;***      reading   8 bits starting at 10009  is VALID ***
;***      reading   8 bits starting at 10017  is VALID ***
;***      reading   8 bits starting at 10025  is VALID ***
;***      reading   8 bits starting at 10505  is VALID ***
;***      reading  16 bits starting at 10001  is VALID ***
;***      reading  24 bits starting at 10009  is VALID ***
;***      reading  32 bits starting at 10017  is VALID ***
;***      reading  512 bits starting at 10001  is VALID ***
;***  invalid examples: (will return error code 02) see ! ***
;***      reading  2!bits starting at 10001  is INVALID ***
;***      reading   8 bits starting at 10002! is INVALID ***
;***      reading  13!bits starting at 10017  is INVALID ***
;***      reading  16 bits starting at 10021! is INVALID ***
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### BOOLEAN\_TBL:

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DW  DSP_IGNSTAT      ;000      001-008
    ;#10001="IGN SHUTDOWN FLAG      ";latched status, may not reflect
current state of inputs
    ;#10002="IGN WARNING FLAG        ";able to run, warning condition
present
    ;#10003="IGN FAULT FLAG           ";not able to run, critical fault
    ;#10004="IGN FIRED FLAG           ";fired since last reset press
    ;#10005="IGN ALARM OUTPUT ACTIVATED";ign alarm output activated
    ;#10006="IGN FIRING FLAG          ";ignition has fired since last
reset press
    ;#10007="IGN PICKUPS OK           ";pickup signals validated
    ;#10008="IGN ENGINE ROTATING      ";engine rotation detected

DW  DSP_IGNNOW      ;001      009-116
    ;#10009="SHUTDN INPUT 1=ACTIVE=GROUND"
    ;#10010="BANK CUTOFF ON  NOW      "      ;bank b of ignition system
turned off
    ;#10011="MISC. INPUT 1=ACTIVE=GROUND"
    ;#10012="ONE STEP ACTIVE NOW      "      ;one step retard offset
status
    ;#10013="ENERGY LEVEL E1 NOW      "

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;#10014="ENERGY LEVEL E2 NOW      "
;#10015="ENERGY LEVEL E3 NOW      "
;#10016="MULTI STRIKE      NOW      "

DW  DSP_DIAG1                      ;002      017-024
;#10017="FAULT NO GEAR TOOTH SIGNAL"
;#10018="FAULT NO RESET SIGNAL    "
;#10019="FAULT NO HE CYCLE SIGNAL  "
;#10020="FAULT WRONG NUMBER OF TEETH"
;#10021="FAULT OVERSPEED SHUTDOWN "
;#10022="spare                    "
;#10023="spare                    "
;#10024="FAULT FIRMWARE CHECKSUM ERR"

DW  DSP_DIAG2                      ;003      025-032
;#10025="WARN LOW VOLTAGE BANK A   "
;#10026="WARN LOW VOLTAGE BANK B   "
;#10027="WARN NO DISCHARGE ON BANK A"
;#10028="WARN NO DISCHARGE ON BANK B"
;#10029="WARN 4-20 LOOP OUT OF RANGE"
;#10030="WARN FAIL TO DETECT DIAG UNIT"
;#10031="WARN EEPROM CHECKSUM FAIL"
;#10032="WARN FAIL TO DETECT DISP BOARD"

DW  DSP_DIAGA1                    ;004      033-040
;#10033="WARN NO DISCHARGE ON (A or A1)"
;#10034="WARN NO DISCHARGE ON (C or B1)"
;#10035="WARN NO DISCHARGE ON (E or C1)"
;#10036="WARN NO DISCHARGE ON (G or D1)"
;#10037="WARN NO DISCHARGE ON (J or E1)"
;#10038="WARN NO DISCHARGE ON (L or F1)"
;#10039="WARN NO DISCHARGE ON (R or G1)"
;#10040="WARN NO DISCHARGE ON (T or H1)"

DW  DSP_DIAGA2                    ;005      041-048
;#10041="WARN NO DISCHARGE ON ( J1)"
;#10042="WARN NO DISCHARGE ON ( K1)"
;#10043="WARN NO DISCHARGE ON ( L1)"
;#10044="WARN NO DISCHARGE ON ( M1)"
;#10045="WARN NO DISCHARGE ON ( R1)"
;#10046="WARN NO DISCHARGE ON ( S1)"
;#10047="WARN NO DISCHARGE ON ( T1)"
;#10048="WARN NO DISCHARGE ON ( U1)"

DW  DSP_DIAGB1                    ;006      049-056
;#10049="WARN NO DISCHARGE ON (B or A2)"
;#10050="WARN NO DISCHARGE ON (D or B2)"
;#10051="WARN NO DISCHARGE ON (F or C2)"
;#10052="WARN NO DISCHARGE ON (H or D2)"
;#10053="WARN NO DISCHARGE ON (K or E2)"
;#10054="WARN NO DISCHARGE ON (M or F2)"
;#10055="WARN NO DISCHARGE ON (S or G2)"
;#10056="WARN NO DISCHARGE ON (U or H2)"

DW  DSP_DIAGB2                    ;007      057-064

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;#10057="WARN NO DISCHARGE ON (      J2)"
;#10058="WARN NO DISCHARGE ON (      K2)"
;#10059="WARN NO DISCHARGE ON (      L2)"
;#10060="WARN NO DISCHARGE ON (      M2)"
;#10061="WARN NO DISCHARGE ON (      R2)"
;#10062="WARN NO DISCHARGE ON (      S2)"
;#10063="WARN NO DISCHARGE ON (      T2)"
;#10064="WARN NO DISCHARGE ON (      U2)"

DW  DSP_IGNMODES                      ;008      065-072
;#10065="PROTECTION ENABLED          EEPROM"
;#10066="SERIAL RETARD ENABLED        EEPROM"
;#10067="RPM RETARD MAP ENABLED       EEPROM"
;#10068="4-20ma RET MAP ENABLED       EEPROM"
;#10069="BASE ENERGY E1 SELECT       EEPROM"
;#10070="BASE ENERGY E2 SELECT       EEPROM"
;#10071="BASE ENERGY E3 SELECT       EEPROM"
;#10072="MULTI-STRIKE SELECT          EEPROM"

DW  DSP_NEWDIAG                      ;009      073-080
;#10073="spare                        "
;#10074="spare                        "
;#10075="spare                        "
;#10076="spare                        "
;#10077="spare                        "
;#10078="FW 2000 PRESENT IN IGNITION   "
;#10079="2 OUTPUTS PER CYLINDER MODE  "
;#10080="32 OUTPUT MODULE (1=32,0=16) "

DW  DSP_WRITE_BITS                   ;010      081-088
;#10081="DIAG MODULE DETECT TOGGLE BIT "
;#10082="1=REQUEST RESET OF MIN/MAX   "
;#10083="1=REQUEST RESET OF ALARMS    "
;#10084="1=SELECT HI DIAG FREQUENCY   "
;#10085="1=DIAG 2000 DETECTED BY IGN  "
;#10086="1=DIAG MODULE ENABLE REQUEST "
;#10087="1=RPM ABOVE MIN/MAX THRESHOLD "
;#10088="1=DIAG READY FROM IGNITION    "

DW  DSP_READ_BITS                    ;011      089-096
;#10089="DIAG MODULE DETECT REPLY BIT "
;#10090="1=RESET MIN MAX CONFIRM BIT  "
;#10091="1=RESET ALARMS CONFIRM BIT   "
;#10092="1=NEW DIAG ALARM DETECTED    "
;#10093="1=DUAL BANK DIAGNOSTIC F/W   "
;#10094="1=DIAG MODULE READY BIT      "
;#10095="1=FIRE OVERRUN FLAG A (NO RST)"
;#10096="1=FIRE OVERRUN FLAG B (NO RST)"

DW  DSP_DIAG_FAULT                   ;012      097-104
;#10097="WARN OPEN PRIMARY             (global)"
;#10098="WARN SHORTED PRIMARY          (global)"
;#10099="WARN LO VOLTAGE                (global)"
;#10100="WARN HI VOLTAGE                (global)"
;#10101="WARN NO SECONDARY SPK          (global)"

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;#10102="WARN HI FROM ENGINE (global)"
;#10103="WARN LO FROM ENGINE (global)"
;#10104="WARN HI VARIATION (global)"

DW DSP_DIAG_ALRM+0 ;cyl a or a1 ;013 105-112
;#10105="WARN OPEN PRIMARY (A or A1)"
;#10106="WARN SHORTED PRIMARY (A or A1)"
;#10107="WARN LO VOLTAGE (A or A1)"
;#10108="WARN HI VOLTAGE (A or A1)"
;#10109="WARN NO SECONDARY SPK(A or A1)"
;#10110="WARN HI FROM ENGINE (A or A1)"
;#10111="WARN LO FROM ENGINE (A or A1)"
;#10112="WARN HI VARIATION (A or A1)"

DW DSP_DIAG_ALRM+1 ;cyl b or a2 ;014 113-120
;#10113="WARN OPEN PRIMARY (B or A2)"
;#10114="WARN SHORTED PRIMARY (B or A2)"
;#10115="WARN LO VOLTAGE (B or A2)"
;#10116="WARN HI VOLTAGE (B or A2)"
;#10117="WARN NO SECONDARY SPK(B or A2)"
;#10118="WARN HI FROM ENGINE (B or A2)"
;#10119="WARN LO FROM ENGINE (B or A2)"
;#10120="WARN HI VARIATION (B or A2)"

DW DSP_DIAG_ALRM+2 ;cyl c or b1 ;015 121-128
;#10121="WARN OPEN PRIMARY (C or B1)"
;#10122="WARN SHORTED PRIMARY (C or B1)"
;#10123="WARN LO VOLTAGE (C or B1)"
;#10124="WARN HI VOLTAGE (C or B1)"
;#10125="WARN NO SECONDARY SPK(C or B1)"
;#10126="WARN HI FROM ENGINE (C or B1)"
;#10127="WARN LO FROM ENGINE (C or B1)"
;#10128="WARN HI VARIATION (C or B1)"

DW DSP_DIAG_ALRM+3 ;cyl d or b2 ;016 129-136
;#10129="WARN OPEN PRIMARY (D or B2)"
;#10130="WARN SHORTED PRIMARY (D or B2)"
;#10131="WARN LO VOLTAGE (D or B2)"
;#10132="WARN HI VOLTAGE (D or B2)"
;#10133="WARN NO SECONDARY SPK(D or B2)"
;#10134="WARN HI FROM ENGINE (D or B2)"
;#10135="WARN LO FROM ENGINE (D or B2)"
;#10136="WARN HI VARIATION (D or B2)"

DW DSP_DIAG_ALRM+4 ;cyl e or c1 ;017 137-144
;#10137="WARN OPEN PRIMARY (E or C1)"
;#10138="WARN SHORTED PRIMARY (E or C1)"
;#10139="WARN LO VOLTAGE (E or C1)"
;#10140="WARN HI VOLTAGE (E or C1)"
;#10141="WARN NO SECONDARY SPK(E or C1)"
;#10142="WARN HI FROM ENGINE (E or C1)"
;#10143="WARN LO FROM ENGINE (E or C1)"
;#10144="WARN HI VARIATION (E or C1)"

DW DSP_DIAG_ALRM+5 ;cyl f or c2 ;018 145-152

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;#10145="WARN OPEN PRIMARY      (F or C2)"
;#10146="WARN SHORTED PRIMARY (F or C2)"
;#10147="WARN LO VOLTAGE        (F or C2)"
;#10148="WARN HI VOLTAGE        (F or C2)"
;#10149="WARN NO SECONDARY SPK(F or C2)"
;#10150="WARN HI FROM ENGINE    (F or C2)"
;#10151="WARN LO FROM ENGINE    (F or C2)"
;#10152="WARN HI VARIATION      (F or C2)"

DW DSP_DIAG_ALRM+6 ;cyl g or d1 ;019 153-160
;#10153="WARN OPEN PRIMARY      (G or D1)"
;#10154="WARN SHORTED PRIMARY (G or D1)"
;#10155="WARN LO VOLTAGE        (G or D1)"
;#10156="WARN HI VOLTAGE        (G or D1)"
;#10157="WARN NO SECONDARY SPK(G or D1)"
;#10158="WARN HI FROM ENGINE    (G or D1)"
;#10159="WARN LO FROM ENGINE    (G or D1)"
;#10160="WARN HI VARIATION      (G or D1)"

DW DSP_DIAG_ALRM+7 ;cyl h or d2 ;020 161-168
;#10161="WARN OPEN PRIMARY      (H or D2)"
;#10162="WARN SHORTED PRIMARY (H or D2)"
;#10163="WARN LO VOLTAGE        (H or D2)"
;#10164="WARN HI VOLTAGE        (H or D2)"
;#10165="WARN NO SECONDARY SPK(H or D2)"
;#10166="WARN HI FROM ENGINE    (H or D2)"
;#10167="WARN LO FROM ENGINE    (H or D2)"
;#10168="WARN HI VARIATION      (H or D2)"

DW DSP_DIAG_ALRM+8 ;cyl j or e1 ;021 169-176
;#10169="WARN OPEN PRIMARY      (J or E1)"
;#10170="WARN SHORTED PRIMARY (J or E1)"
;#10171="WARN LO VOLTAGE        (J or E1)"
;#10172="WARN HI VOLTAGE        (J or E1)"
;#10173="WARN NO SECONDARY SPK(J or E1)"
;#10174="WARN HI FROM ENGINE    (J or E1)"
;#10175="WARN LO FROM ENGINE    (J or E1)"
;#10176="WARN HI VARIATION      (J or E1)"

DW DSP_DIAG_ALRM+9 ;cyl k or e2 ;022 177-184
;#10177="WARN OPEN PRIMARY      (K or E2)"
;#10178="WARN SHORTED PRIMARY (K or E2)"
;#10179="WARN LO VOLTAGE        (K or E2)"
;#10180="WARN HI VOLTAGE        (K or E2)"
;#10181="WARN NO SECONDARY SPK(K or E2)"
;#10182="WARN HI FROM ENGINE    (K or E2)"
;#10183="WARN LO FROM ENGINE    (K or E2)"
;#10184="WARN HI VARIATION      (K or E2)"

DW DSP_DIAG_ALRM+10 ;cyl l or f1 ;023 185-192
;#10185="WARN OPEN PRIMARY      (L or F1)"
;#10186="WARN SHORTED PRIMARY (L or F1)"
;#10187="WARN LO VOLTAGE        (L or F1)"
;#10188="WARN HI VOLTAGE        (L or F1)"
;#10189="WARN NO SECONDARY SPK(L or F1)"

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;#10190="WARN HI FROM ENGINE (L or F1)"
;#10191="WARN LO FROM ENGINE (L or F1)"
;#10192="WARN HI VARIATION (L or F1)"

DW DSP_DIAG_ALRM+11 ;cyl m or f2 ;024 193-200
;#10193="WARN OPEN PRIMARY (M or F2)"
;#10194="WARN SHORTED PRIMARY (M or F2)"
;#10195="WARN LO VOLTAGE (M or F2)"
;#10196="WARN HI VOLTAGE (M or F2)"
;#10197="WARN NO SECONDARY SPK(M or F2)"
;#10198="WARN HI FROM ENGINE (M or F2)"
;#10199="WARN LO FROM ENGINE (M or F2)"
;#10200="WARN HI VARIATION (M or F2)"

DW DSP_DIAG_ALRM+12 ;cyl r or g1 ;025 201-208
;#10201="WARN OPEN PRIMARY (R or G1)"
;#10202="WARN SHORTED PRIMARY (R or G1)"
;#10203="WARN LO VOLTAGE (R or G1)"
;#10204="WARN HI VOLTAGE (R or G1)"
;#10205="WARN NO SECONDARY SPK(R or G1)"
;#10206="WARN HI FROM ENGINE (R or G1)"
;#10207="WARN LO FROM ENGINE (R or G1)"
;#10208="WARN HI VARIATION (R or G1)"

DW DSP_DIAG_ALRM+13 ;cyl s or g2 ;026 209-216
;#10209="WARN OPEN PRIMARY (S or G2)"
;#10210="WARN SHORTED PRIMARY (S or G2)"
;#10211="WARN LO VOLTAGE (S or G2)"
;#10212="WARN HI VOLTAGE (S or G2)"
;#10213="WARN NO SECONDARY SPK(S or G2)"
;#10214="WARN HI FROM ENGINE (S or G2)"
;#10215="WARN LO FROM ENGINE (S or G2)"
;#10216="WARN HI VARIATION (S or G2)"

DW DSP_DIAG_ALRM+14 ;cyl t or h1 ;027 217-224
;#10217="WARN OPEN PRIMARY (T or H1)"
;#10218="WARN SHORTED PRIMARY (T or H1)"
;#10219="WARN LO VOLTAGE (T or H1)"
;#10220="WARN HI VOLTAGE (T or H1)"
;#10221="WARN NO SECONDARY SPK(T or H1)"
;#10222="WARN HI FROM ENGINE (T or H1)"
;#10223="WARN LO FROM ENGINE (T or H1)"
;#10224="WARN HI VARIATION (T or H1)"

DW DSP_DIAG_ALRM+15 ;cyl u or h2 ;028 225-232
;#10225="WARN OPEN PRIMARY (U or H2)"
;#10226="WARN SHORTED PRIMARY (U or H2)"
;#10227="WARN LO VOLTAGE (U or H2)"
;#10228="WARN HI VOLTAGE (U or H2)"
;#10229="WARN NO SECONDARY SPK(U or H2)"
;#10230="WARN HI FROM ENGINE (U or H2)"
;#10231="WARN LO FROM ENGINE (U or H2)"
;#10232="WARN HI VARIATION (U or H2)"

DW DSP_DIAG_ALRM+16 ;cyl j1 ;029 233-240

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;#10233="WARN OPEN PRIMARY      (      J1)"
;#10234="WARN SHORTED PRIMARY (      J1)"
;#10235="WARN LO VOLTAGE         (      J1)"
;#10236="WARN HI VOLTAGE         (      J1)"
;#10237="WARN NO SECONDARY SPK(      J1)"
;#10238="WARN HI FROM ENGINE     (      J1)"
;#10239="WARN LO FROM ENGINE     (      J1)"
;#10240="WARN HI VARIATION       (      J1)"

DW DSP_DIAG_ALRM+17 ;cyl      j2      ;030      241-248
;#10241="WARN OPEN PRIMARY      (      J2)"
;#10242="WARN SHORTED PRIMARY (      J2)"
;#10243="WARN LO VOLTAGE         (      J2)"
;#10244="WARN HI VOLTAGE         (      J2)"
;#10245="WARN NO SECONDARY SPK(      J2)"
;#10246="WARN HI FROM ENGINE     (      J2)"
;#10247="WARN LO FROM ENGINE     (      J2)"
;#10248="WARN HI VARIATION       (      J2)"

DW DSP_DIAG_ALRM+18 ;cyl      k1      ;031      249-256
;#10249="WARN OPEN PRIMARY      (      K1)"
;#10250="WARN SHORTED PRIMARY (      K1)"
;#10251="WARN LO VOLTAGE         (      K1)"
;#10252="WARN HI VOLTAGE         (      K1)"
;#10253="WARN NO SECONDARY SPK(      K1)"
;#10254="WARN HI FROM ENGINE     (      K1)"
;#10255="WARN LO FROM ENGINE     (      K1)"
;#10256="WARN HI VARIATION       (      K1)"

DW DSP_DIAG_ALRM+19 ;cyl      k2      ;032      257-264
;#10257="WARN OPEN PRIMARY      (      K2)"
;#10258="WARN SHORTED PRIMARY (      K2)"
;#10259="WARN LO VOLTAGE         (      K2)"
;#10260="WARN HI VOLTAGE         (      K2)"
;#10261="WARN NO SECONDARY SPK(      K2)"
;#10262="WARN HI FROM ENGINE     (      K2)"
;#10263="WARN LO FROM ENGINE     (      K2)"
;#10264="WARN HI VARIATION       (      K2)"

DW DSP_DIAG_ALRM+20 ;cyl      l1      ;033      265-272
;#10265="WARN OPEN PRIMARY      (      L1)"
;#10266="WARN SHORTED PRIMARY (      L1)"
;#10267="WARN LO VOLTAGE         (      L1)"
;#10268="WARN HI VOLTAGE         (      L1)"
;#10269="WARN NO SECONDARY SPK(      L1)"
;#10270="WARN HI FROM ENGINE     (      L1)"
;#10271="WARN LO FROM ENGINE     (      L1)"
;#10272="WARN HI VARIATION       (      L1)"

DW DSP_DIAG_ALRM+21 ;cyl      l2      ;034      273-280
;#10273="WARN OPEN PRIMARY      (      L2)"
;#10274="WARN SHORTED PRIMARY (      L2)"
;#10275="WARN LO VOLTAGE         (      L2)"
;#10276="WARN HI VOLTAGE         (      L2)"
;#10277="WARN NO SECONDARY SPK(      L2)"

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;#10278="WARN HI FROM ENGINE ( L2)"
;#10279="WARN LO FROM ENGINE ( L2)"
;#10280="WARN HI VARIATION ( L2)"

DW DSP_DIAG_ALRM+22 ;cyl m1 ;035 281-288
;#10281="WARN OPEN PRIMARY ( M1)"
;#10282="WARN SHORTED PRIMARY ( M1)"
;#10283="WARN LO VOLTAGE ( M1)"
;#10284="WARN HI VOLTAGE ( M1)"
;#10285="WARN NO SECONDARY SPK( M1)"
;#10286="WARN HI FROM ENGINE ( M1)"
;#10287="WARN LO FROM ENGINE ( M1)"
;#10288="WARN HI VARIATION ( M1)"

DW DSP_DIAG_ALRM+23 ;cyl m2 ;036 289-296
;#10289="WARN OPEN PRIMARY ( M2)"
;#10290="WARN SHORTED PRIMARY ( M2)"
;#10291="WARN LO VOLTAGE ( M2)"
;#10292="WARN HI VOLTAGE ( M2)"
;#10293="WARN NO SECONDARY SPK( M2)"
;#10294="WARN HI FROM ENGINE ( M2)"
;#10295="WARN LO FROM ENGINE ( M2)"
;#10296="WARN HI VARIATION ( M2)"

DW DSP_DIAG_ALRM+24 ;cyl r1 ;037 297-304
;#10297="WARN OPEN PRIMARY ( R1)"
;#10298="WARN SHORTED PRIMARY ( R1)"
;#10299="WARN LO VOLTAGE ( R1)"
;#10300="WARN HI VOLTAGE ( R1)"
;#10301="WARN NO SECONDARY SPK( R1)"
;#10302="WARN HI FROM ENGINE ( R1)"
;#10303="WARN LO FROM ENGINE ( R1)"
;#10304="WARN HI VARIATION ( R1)"

DW DSP_DIAG_ALRM+25 ;cyl r2 ;038 305-312
;#10305="WARN OPEN PRIMARY ( R2)"
;#10306="WARN SHORTED PRIMARY ( R2)"
;#10307="WARN LO VOLTAGE ( R2)"
;#10308="WARN HI VOLTAGE ( R2)"
;#10309="WARN NO SECONDARY SPK( R2)"
;#10310="WARN HI FROM ENGINE ( R2)"
;#10311="WARN LO FROM ENGINE ( R2)"
;#10312="WARN HI VARIATION ( R2)"

DW DSP_DIAG_ALRM+26 ;cyl s1 ;039 313-320
;#10313="WARN OPEN PRIMARY ( S1)"
;#10314="WARN SHORTED PRIMARY ( S1)"
;#10315="WARN LO VOLTAGE ( S1)"
;#10316="WARN HI VOLTAGE ( S1)"
;#10317="WARN NO SECONDARY SPK( S1)"
;#10318="WARN HI FROM ENGINE ( S1)"
;#10319="WARN LO FROM ENGINE ( S1)"
;#10320="WARN HI VARIATION ( S1)"

DW DSP_DIAG_ALRM+27 ;cyl s2 ;040 321-328

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;#10321="WARN OPEN PRIMARY      (      S2)"
;#10322="WARN SHORTED PRIMARY (      S2)"
;#10323="WARN LO VOLTAGE         (      S2)"
;#10324="WARN HI VOLTAGE         (      S2)"
;#10325="WARN NO SECONDARY SPK(      S2)"
;#10326="WARN HI FROM ENGINE     (      S2)"
;#10327="WARN LO FROM ENGINE     (      S2)"
;#10328="WARN HI VARIATION       (      S2)"

DW DSP_DIAG_ALRM+28 ;cyl      t1      ;041      329-336
;#10329="WARN OPEN PRIMARY      (      T1)"
;#10330="WARN SHORTED PRIMARY (      T1)"
;#10331="WARN LO VOLTAGE         (      T1)"
;#10332="WARN HI VOLTAGE         (      T1)"
;#10333="WARN NO SECONDARY SPK(      T1)"
;#10334="WARN HI FROM ENGINE     (      T1)"
;#10335="WARN LO FROM ENGINE     (      T1)"
;#10336="WARN HI VARIATION       (      T1)"

DW DSP_DIAG_ALRM+29 ;cyl      t2      ;042      337-344
;#10337="WARN OPEN PRIMARY      (      T2)"
;#10338="WARN SHORTED PRIMARY (      T2)"
;#10339="WARN LO VOLTAGE         (      T2)"
;#10340="WARN HI VOLTAGE         (      T2)"
;#10341="WARN NO SECONDARY SPK(      T2)"
;#10342="WARN HI FROM ENGINE     (      T2)"
;#10343="WARN LO FROM ENGINE     (      T2)"
;#10344="WARN HI VARIATION       (      T2)"

DW DSP_DIAG_ALRM+30 ;cyl      u1      ;043      345-352
;#10345="WARN OPEN PRIMARY      (      U1)"
;#10346="WARN SHORTED PRIMARY (      U1)"
;#10347="WARN LO VOLTAGE         (      U1)"
;#10348="WARN HI VOLTAGE         (      U1)"
;#10349="WARN NO SECONDARY SPK(      U1)"
;#10350="WARN HI FROM ENGINE     (      U1)"
;#10351="WARN LO FROM ENGINE     (      U1)"
;#10352="WARN HI VARIATION       (      U1)"

DW DSP_DIAG_ALRM+31 ;cyl      u2      ;044      353-360
;#10353="WARN OPEN PRIMARY      (      U2)"
;#10354="WARN SHORTED PRIMARY (      U2)"
;#10355="WARN LO VOLTAGE         (      U2)"
;#10356="WARN HI VOLTAGE         (      U2)"
;#10357="WARN NO SECONDARY SPK(      U2)"
;#10358="WARN HI FROM ENGINE     (      U2)"
;#10359="WARN LO FROM ENGINE     (      U2)"
;#10360="WARN HI VARIATION       (      U2)"

DW DSP_IGNCFG          ;          ;045      361-368
;#10361="LO ORDER BAUD SCALER BIT      "
;#10362="MID ORDER BAUD SCALER BIT      "
;#10363="HI ORDER BAUD SCALER BIT      "
;#10364="1=PARITY OFF 0=PARITY ON      "
;#10365="1=PARITY ODD 0=PARITY EVEN      "

```

# CPU-2000 Modbus Boolean Registers

```

;#10366="spare"
;#10367="1=BANK CUTOFF TYPE CONFIG
;#10368="1=2 CYCLE 0=4CYCLE CONFIG
;      PP  b
;      oo  a
;      df  u
;      df /d\
;00 00000000B ModBusRTU 300e81
;01 00000001B ModBusRTU 600e81
;02 00000010B ModBusRTU1200e81
;03 00000011B ModBusRTU2400e81
;04 00000100B ModBusRTU4800e81
;05 00000101B ModBusRTU9600e81
;06 00000110B ModBusRTU19.2e81
;07 00000111B ModBusRTU38.4e81
;
;08 00001000B ModBusRTU 300o81
;09 00001001B ModBusRTU 600o81
;10 00001010B ModBusRTU1200o81
;11 00001011B ModBusRTU2400o81
;12 00001100B ModBusRTU4800o81
;13 00001101B ModBusRTU9600o81
;14 00001110B ModBusRTU19.2o81
;15 00001111B ModBusRTU38.4o81
;
;16 00010000B ModBusRTU 300n81
;17 00010001B ModBusRTU 600n81
;18 00010010B ModBusRTU1200n81
;19 00010011B ModBusRTU2400n81
;20 00010100B ModBusRTU4800n81
;21 00010101B ModBusRTU9600n81
;22 00010110B ModBusRTU19.2n81
;23 00010111B ModBusRTU38.4n81
;
;24 00011000B Altronic 9bit

DW DSP_EXTBITSR ;046 369-376
;#10369="AD INTERRUPT PIN"
;#10370="MISFIRED DETECTION BITA"
;#10371="MISFIRED DETECTION BITB"
;#10372="CHKPAGE 2 BIT"
;#10373="MISC_INPUT BIT"
;#10374="TEST DENY BIT"
;#10375="TEST ACTIVE BIT"
;#10376="TEST REQUEST BIT"

DW 0FE00H+EXTBITSW ;047 377-384
;#10377="FIRE CNFRM OUT 1=CLOSED 0=OPEN"
;#10378="SHUTDOWN OUT 1=CLOSED 0=OPEN"
;#10379="ALARM OUT 1=CLOSED 0=OPEN"
;#10380="SPARE OUT 1=CLOSED 0=OPEN"
;#10381="spare"
;#10382="SKIP CONTROL BIT"
;#10383="CMDPAGE2 BIT"
;#10384="TWO CYCLE CONTROL BIT"

```

DW	0FF00H+00	; 8 spare bits ;048	385-392
	;#10385="spare		"
	;#10386="spare		"
	;#10387="spare		"
	;#10388="spare		"
	;#10389="spare		"
	;#10390="spare		"
	;#10391="spare		"
	;#10392="spare		"
DW	0FF00H+00	; 8 spare bits ;049	393-400
	;#10393="spare		"
	;#10394="spare		"
	;#10395="spare		"
	;#10396="spare		"
	;#10397="spare		"
	;#10398="spare		"
	;#10399="spare		"
	;#10400="spare		"
DW	0FF00H+00	; 8 spare bits ;050	401-408
	;#10401="spare		"
	;#10402="spare		"
	;#10403="spare		"
	;#10404="spare		"
	;#10405="spare		"
	;#10406="spare		"
	;#10407="spare		"
	;#10408="spare		"
DW	0FF00H+00	; 8 spare bits ;051	409-416
	;#10409="spare		"
	;#10410="spare		"
	;#10411="spare		"
	;#10412="spare		"
	;#10413="spare		"
	;#10414="spare		"
	;#10415="spare		"
	;#10416="spare		"
DW	0FF00H+00	; 8 spare bits ;052	417-424
	;#10417="spare		"
	;#10418="spare		"
	;#10419="spare		"
	;#10420="spare		"
	;#10421="spare		"
	;#10422="spare		"
	;#10423="spare		"
	;#10424="spare		"
DW	0FF00H+00	; 8 spare bits ;053	425-432
	;#10425="spare		"
	;#10426="spare		"
	;#10427="spare		"

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DW	0FF00H+00	; 8 spare bits ;059	473-480
	;#10473="spare		"
	;#10474="spare		"
	;#10475="spare		"
	;#10476="spare		"
	;#10477="spare		"
	;#10478="spare		"
	;#10479="spare		"
	;#10480="spare		"
DW	0FF00H+00	; 8 spare bits ;060	481-488
	;#10481="spare		"
	;#10482="spare		"
	;#10483="spare		"
	;#10484="spare		"
	;#10485="spare		"
	;#10486="spare		"
	;#10487="spare		"
	;#10488="spare		"
DW	0FF00H+00	; 8 spare bits ;061	489-496
	;#10489="spare		"
	;#10490="spare		"
	;#10491="spare		"
	;#10492="spare		"
	;#10493="spare		"
	;#10494="spare		"
	;#10495="spare		"
	;#10496="spare		"
DW	0FF00H+00	; 8 spare bits ;062	497-504
	;#10497="spare		"
	;#10498="spare		"
	;#10499="spare		"
	;#10500="spare		"
	;#10501="spare		"
	;#10502="spare		"
	;#10503="spare		"
	;#10504="spare		"
DW	0FF00H+00	; 8 spare bits ;063	505-512
	;#10505="spare		"
	;#10506="spare		"
	;#10507="spare		"
	;#10508="spare		"
	;#10509="spare		"
	;#10510="spare		"
	;#10511="spare		"
	;#10512="spare		"