



sigma2 Series

Ascon – What's new!!!

April 6th, 2010

Ascon Spa – What's new!!!



April 6th, 2010 – Libraries version 14.8

Cab files Ascon_sigmadue_2010 and Ascon_sigmadue_CU01_2010

- added Template **microPAC** added new %M memory areas in order to know configuration and status of Analog Inputs and Outputs;
- bug fix OpenPCS **TOTALIZER** internal code changed in order to match the modifications introduced with Libraries version 2.1;
- mod. FB OpenPCS **COUNTER** modified output variables as RETAIN;
- mod. FB OpenPCS **SLOPE_LIMIT** modified internal sampling time calculation to avoid first cycle miscalculations, disabled slope operations if SL value equal to 0.0 (zero) even if the FB is enabled;
- mod. FB OpenPCS **MB_MST_RD_WORD** masked to 0 (zero) all the output array words exceeding the NR_REG operations value;

December 22nd, 2009 – Libraries version 13.7

Cab files Ascon_sigmadue_2009 and Ascon_sigmadue_CU01_2009

- modified Cab File **sigmadue Series** introduction of a **unique** driver cab file to support both **sigmaPAC** and **microPAC** with revision number;
- modified Cab File **sigmaPAC CU-01** introduction of a driver cab file to support the **old version** of **sigmaPAC** CU-01 with dedicated libraries and revision number;
- modified Firmware **sigmadue Series** increased Modbus data blocks up to 44 words for both agents Slave1 and Slave2 in **sigmaPAC** and **microPAC**;
- added Firmware **sigmaPAC** LED RUN management in case of classic or % retained variables corruption;
- new Firmware **sigmaPAC** configuration menu accessible now also via Ethernet;



sigma due Series

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- new Firmware **sigmaPAC** configuration data now saved on an internal CPU file;
- new Firmware **sigmaPAC** Runtime errors now saved on an internal CPU log file;
- new Firmware **sigmaPAC** support for retentive % variables (Modbus areas Slave1, Slave2 and standard);
- added Firmware **sigmaPAC** section in the initial configuration menu in order to manage the amount of retentive % variables;
- added Firmware **sigmaPAC** capability to download/upload the files which contain the entire retained area values;
- added Firmware **sigmaPAC** Alarm output selection as standard or watchdog in the initial configuration;
- added Firmware **sigmaPAC Profibus** configuration string generation in according with Profibus specifications;
- added Firmware **sigmaPAC Profibus** communication interface reset capability in case of cable disconnection (chip VPC3+B);
- new FBs Firmware **sigmaPAC** to copy values between different memory types by using **MEMCPY_Q_TO_M**, **MEMCPY_I_TO_M**, **MEMCPY_M_TO_M** and **MEMCPY_M_TO_Q**;
- new FBs Firmware **sigmaPAC** to read or write an array of max 100 bytes max as serial data by using **SERIAL_IO_READ_BYTE** or **SERIAL_IO_WRITE_BYTE**;
- new FBs Firmware **sigmaPAC** to convert from ASCII numeric code to character or vice versa by using **CONV_ASCII_TO_CHAR** or **CONV_CHAR_TO_ASCII**;
- new FB Firmware **sigmaPAC** capability to send e-mail by using **SEND_EMAIL**;
- new FB Firmware **sigmaPAC** capability of a servomotor positioner in close loop by using **CTRL_SRV_POS**;
- added OpenPCS **sigma due Series** new HTML screen, available from the OpenPCS initial splash screen, to open all the PDF files available for libraries, FBs, I/O modules and CPUs;
- new FB OpenPCS **microPAC** capability to linearize the 4 - 20 mA signal coming from the new external 4 channels RTD conversion board available ONLY with the **microPAC** by using **MP_RTD_LIN**;
- mod. FB Firmware **sigmaPAC** enhanced bumpless capabilities in the **S2_CONTROLLER** and **S2_HC_CONTROLLER**;
- mod. FB Firmware **sigmaPAC** the string is now closed by the termination character even in case of errors in **SERIAL_IO_READ**;
- mod. FB Firmware **sigmaPAC** fixed the behavior if outputs command must be maintained in according to OUTMODE selection in **CTRL_SRV**;
- mod. FB OpenPCS **MB_MST_RD_COIL** added input NR_BIT and limited the amount of data blocks between 1 and 32;
- mod. FB OpenPCS **MB_MST_WR_COIL** added input NR_BIT and limited the amount of data blocks between 1 and 32;
- mod. FB OpenPCS **MB_MST_RD_WORD** limited amount of data blocks between 1 and 16;
- mod. FB OpenPCS **MB_MST_WR_WORD** limited the amount of data blocks between 1 and 16;
- bug fix Firmware **sigmaPAC** correction for single and multiple coil write Modbus functions to complain with specification;
- bug fix OpenPCS **S2_FILTER** correction on TAU input to accept only positive values and enhanced filtering capabilities to intercept condition where sampling time exceeds the TAU value;
- bug fix OpenPCS **aDM08TS** changed datatype for **INPUT_OPTION**, **OUTPUT_OPTION** and **FREQUENCY_RANGE** as usint to fix Frequency and/or PWM functionalities;



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1st August, 2009 – Libraries version 2.1

Cab files ...HW3040_LIB13_HELP7_LIC09 and ...HW4020_LIB13_HELP7_LIC09

- new FB OpenPCS **sigma**due Series advanced Timer with Start, Run_Hold, Reset commands with countdown and Status in **TIMER_ADV**;
- modified OpenPCS **sigma**due Series modified output variables as RETAIN in **TOTALIZER**;
- bug fix OpenPCS **sigma**due Series n_retry, MB_FAIL, MB_TOUT, MB_ERR and MB_SYNC calls were in a wrong code location in **MB_MST_WR_COIL**;
- bug fix OpenPCS **sigma**due Series n_retry, MB_FAIL, MB_TOUT, MB_ERR and MB_SYNC calls were in a wrong code location in **MB_MST_WR_WORD**;
- added Firmware **micro**PAC support for retentive % variables (Modbus areas Slave1, Slave2 and standard) ;
- added Firmware **micro**PAC initial configuration menu in order to manage the dimension of the retentive % variable areas;
- added Firmware **micro**PAC capability to download/upload a file which contains the entire retentive area values;
- modified Firmware **micro**PAC available now some % memory locations where is possible to know the battery, standard and % retentive memory status;
- modified Firmware **micro**PAC available now some % memory locations where is possible to READ the actual configuration of the unit;
- modified Firmware **micro**PAC modified the text “Rejection Freq” and “Calib. Potentiometer” in the initial configuration menu;
- new FB Firmware **micro**PAC capability for a servomotor positioner in close loop by using **CTRL_SRV_POS**;
- new FB Firmware **micro**PAC capability to send e-mail by using **SEND_EMAIL**;
- new FBs Firmware **micro**PAC to read or write an array of max 100 bytes max as serial data with **SERIAL_IO_READ_BYTE** or **SERIAL_IO_WRITE_BYTE**;
- new FBs Firmware **micro**PAC to convert from ASCII numeric code to character or vice versa by using **CONV_ASCII_TO_CHAR** or **CONV_CHAR_TO_ASCII**;
- mod. FBs Firmware **micro**PAC buffer increased up to 100 bytes with **SERIAL_IO_READ** and **SERIAL_IO_WRITE**;
- bug fix Firmware **micro**PAC the string is now closed by the termination character even in case of error in **SERIAL_IO_READ**;