

# Bloc Fonction



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0.15€ TTC/mn

Reference	ModbusSlave
Revision	1.1
Author	JP Viskovic
Date	18/08/2009
+ Support	<a href="http://support-omron.fr/">http://support-omron.fr/</a>

## Function Bloc Modbus RTU slave

Function	Modbus RTU Slave																											
Symbol																												
File	<a href="#">ModbusSlave</a>																											
PLC	CPU : CJ1xx-V3, CP1H, CP1L-L, CP1L-M																											
Using Conditions	<p>Serial port should be set to RS-232C mode and using 8 bits of data. Switch in front related to the serial port should be set to « Setup » (user configuration).</p> <p>Supported functions :</p> <table border="0"> <tr> <td>0x01</td> <td>***** NOT SUPPORTED *****</td> <td>Read Coils</td> </tr> <tr> <td>0x02</td> <td>***** NOT SUPPORTED *****</td> <td>Read Discrete Inputs</td> </tr> <tr> <td>0x03</td> <td>Read DM data memory</td> <td>Read Holding Registers</td> </tr> <tr> <td>0x04</td> <td>Read CIO</td> <td>Read Input Registers</td> </tr> <tr> <td>0x05</td> <td>Write 1 bit in CIO area</td> <td>Write Single Coil</td> </tr> <tr> <td>0x06</td> <td>Write 1 word in DM area</td> <td>Write Single Register</td> </tr> <tr> <td>0x08</td> <td>Echo back Test</td> <td>Echo Back Test</td> </tr> <tr> <td>0x0F</td> <td>***** NOT SUPPORTED *****</td> <td>Write Multiple Coils</td> </tr> <tr> <td>0x10</td> <td>Write multiple words DM</td> <td>Write Multiple Registers</td> </tr> </table> <p>Broadcast supported using slave n° 00</p>	0x01	***** NOT SUPPORTED *****	Read Coils	0x02	***** NOT SUPPORTED *****	Read Discrete Inputs	0x03	Read DM data memory	Read Holding Registers	0x04	Read CIO	Read Input Registers	0x05	Write 1 bit in CIO area	Write Single Coil	0x06	Write 1 word in DM area	Write Single Register	0x08	Echo back Test	Echo Back Test	0x0F	***** NOT SUPPORTED *****	Write Multiple Coils	0x10	Write multiple words DM	Write Multiple Registers
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Restrictions	<p>Memory area allowed:</p> <p>CP1L-L: CIO0 to CIO6143 and D0 to D9999</p> <p>CP1L-M &amp; CJxx-V3 : CIO0 to CIO6143 and D0 to D32767</p> <p>Warning :</p> <p>The FB ModbusSlave control the address of read/write until DM32767.</p> <p>In case of read/write over D10000 of CP1L-L, the flag Err_Adresse will not detect.</p>																											

## Input Variables

Name	type	Range of value	Description
Slave n°	Integer unsigned (UINT)	1 à 247	Slave number
Port	Integer unsigned (UINT)	0,1 ou 2	Serial Port used : CJ1xx-V3 : &0 CP1L-L : &1 CP1L-M left : &1 CP1L-M dright : &2 CP1H left : &1 CP1H right : &2

## Variables de sortie

Nom	type	Range of value	Description
ENO	Bool	OFF, ON	Non utilisé
Err_Adresse	Bool	OFF, ON	Read/write Address error.
Err_Fonction	Bool	OFF, ON	Function Code error (not supported)
Cpt_Recept	Integer unsigned (UINT)	0000 to FFFF	Reception counter. (CRC16 correct)
Cpt_Err	Integer unsigned (UINT)	0000 to FFFF	Error counter. CRC16 correct but address or function incorrect