Modbus Library Reference

Available in Wattmon OS 3.12+

The Modbus include library contains functions and defines as shown below.

Usage:

```
include("/lib/uphp/modbus.inc");
```

[[modbus.inc|View Source]]

Defines

DEFINE	VALUE
MB_ILLEGAL_FUNCTION	-1
MB_ILLEGAL_ADDRESS	-2
MB_ILLEGAL_VALUE	-3
MB_SLAVE_FAILURE	-4

Functions

Click on the function name for further details:

FUNCTION NAME	PARAMETER(S)	RETURN	LIBRARY	DESCRIPTION
mb_get_error_string	int error	string	modbus	Get human readable error description
mb_set_float_be_0x10	int id, int bus, int reg, int val, int retries	int	modbus	Set a modbus float in big endian using function 10h
mb_set_float_le_0x10	int id, int bus, int reg, int val, int retries	int	modbus	Set a modbus float in little endian using function 10h
mb_set_int16_0x03	int id, int bus, int reg, int val, int retries	int	modbus	Set a modbus device register using function 03h
mb_set_int16_0x10	int id, int bus, int reg, int val, int retries	int	modbus	Set a modbus device register using function 10h
mb_set_uint32_be_0x10	int id, int bus, int reg, int val, int retries	int	modbus	Set a modbus UINT32 in big endian using function 10h
mb_set_uint32_le_0x10	int id, int bus, int reg, int val, int retries	int	modbus	Set a modbus UINT32 in little endian using function 10h

Example

```
<pre><?
// assume a modbus TCP connection on ID 1 on Channel 2
$DEBUG=1;
```

```
include("/lib/uphp/modbus.inc");

$id=1;
$bus=2;
$reg=1;
$cmd=100;
$retries=1;

$res=mb_set_int16_0x03($id, $bus, $reg, $cmd, $retries);
print("\r\nSet INT 16 func 03 result is : ".$res."
".mb_get_error_string($res));
$reg++;
$res=mb_set_int16_0x10($id, $bus, $reg, $cmd, $retries);
print("\r\nSet INT 16 func 10 result is : ".$res."
".mb_get_error_string($res));
$reg+=2;
$res=mb_set_uint32_le_0x10($id, $bus, $reg, $cmd, $retries);
print("\r\mb_set_uint32_le_0x10 result is : ".$res."
".mb_get_error_string($res));
$reg+=2;
$res=mb_set_uint32_be_0x10($id, $bus, $reg, $cmd, $retries);
print("\r\mb_set_uint32_be_0x10 result is : ".$res."
".mb_get_error_string($res));
$reg+=2;
$res=mb_set_float_le_0x10($id, $bus, $reg, $cmd, $retries);
print("\r\mb_set_float_le_0x10 result is : ".$res."
".mb_get_error_string($res));
$reg+=2;
$res=mb_set_float_be_0x10($id, $bus, $reg, $cmd, $retries);
print("\r\mb_set_float_be_0x10 result is : ".$res."
".mb_get_error_string($res));
?></pre>
```