

# lamaLib: energyMeterToModbusRegs

The function converts a UDInt type variable into 2 Word. Specifically, the function transmits the status of an energy meter to 2 Modbus registers (the Modbus registers are word type).

Function call:

```
"energyMeterToModbusRegs"(energyMeter:=_udint_in_,  
                           register1=>_word_out_,  
                           register2=>_word_out_);
```

Source code:

```
FUNCTION "energyMeterToModbusRegs" : VOID  
{ S7_Optimized_Access := 'TRUE' }  
VERSION : 0.1  
  VAR_INPUT  
    energyMeter : UDInt; // Energy meter value to send  
  END_VAR  
  
  VAR_OUTPUT  
    register1 : WORD; // 1st modbus register  
    register2 : WORD; // 2nd modbus register  
  END_VAR  
  
  VAR_TEMP  
    uint_hi : UInt;  
    uint_lo : UInt;  
    en_dw : UDInt;  
  END_VAR  
  
BEGIN  
  // copy enegymeter value  
  #en_dw := #energyMeter;  
  // first word  
  #uint_hi := TRUNC(#en_dw / 16#7FFF);  
  // 2nd word  
  #uint_lo := #en_dw - (#uint_hi * 16#7FFF);  
  // copy to reg1  
  #register1 := #uint_hi;  
  // copy to reg2  
  #register2 := #uint_lo;  
END_FUNCTION
```



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