

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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