

# SIEMENS

## SIMATIC Ident

## RFID systems

# Product information on "Ident profile and Ident blocks" and "RFID standard profile"

## Product Information

### Legal information

#### Warning notice system

This manual contains notices you have to observe in order to ensure your personal safety, as well as to prevent damage to property. The notices referring to your personal safety are highlighted in the manual by a safety alert symbol, notices referring only to property damage have no safety alert symbol. These notices shown below are graded according to the degree of danger.

<b>⚠ DANGER</b>
indicates that death or severe personal injury <b>will</b> result if proper precautions are not taken.
<b>⚠ WARNING</b>
indicates that death or severe personal injury <b>may</b> result if proper precautions are not taken.
<b>⚠ CAUTION</b>
indicates that minor personal injury can result if proper precautions are not taken.
<b>NOTICE</b>
indicates that property damage can result if proper precautions are not taken.

If more than one degree of danger is present, the warning notice representing the highest degree of danger will be used. A notice warning of injury to persons with a safety alert symbol may also include a warning relating to property damage.

#### Qualified Personnel

The product/system described in this documentation may be operated only by **personnel qualified** for the specific task in accordance with the relevant documentation, in particular its warning notices and safety instructions. Qualified personnel are those who, based on their training and experience, are capable of identifying risks and avoiding potential hazards when working with these products/systems.

#### Proper use of Siemens products

Note the following:

<b>⚠ WARNING</b>
Siemens products may only be used for the applications described in the catalog and in the relevant technical documentation. If products and components from other manufacturers are used, these must be recommended or approved by Siemens. Proper transport, storage, installation, assembly, commissioning, operation and maintenance are required to ensure that the products operate safely and without any problems. The permissible ambient conditions must be complied with. The information in the relevant documentation must be observed.

# Introduction

This product information contains technical updates to the Function manuals

- "Ident profile and Ident blocks, standard function for Ident systems". dated 10/2014
- "RFID standard profile; standard function for RFID systems" dated 10/2010

For the function described here, connection via the communications module RF180C V2.2 is currently necessary.

The updates described in this document are relevant for the battery query of MOBY U.

## Product information / technical update

### Transferring the parameter "calendar week/year" in the "WRITE-CONFIG" command

This section relates to the section "3.5.4.2 Commands" of the function manual "Ident profile and Ident blocks" or the section "3.2.4.21 WRITE-CONFIG" of the function manual "RFID standard profile".

#### Change in the command

When the "WRITE-CONFIG" command executes, the current date (calendar week, year) is stored in bytes 4 and 5 in the data block. Previously these two bytes were marked as reserved.

Table 1 Structure of the configuration data

Byte	1	2...3	4	5	6	7...8	9	10	11	12	13...14	15	16
Value	04h	res.	CW	Year	0A	0	Standby	Param	Opt1	dili	No. of MDS	Ftim	Fcon

res. = reserved

CW = calendar week (hexadecimal); e.g "0x1B"  $\triangleq$  calendar week 27

Year = year (hexadecimal): e.g. "0x0E"  $\triangleq$  year 2014

#### Effects

Specifying the date in the "WRITE-CONFIG" command has the following effect:

- By transferring the date (CW, year) with the "WRITE-CONFIG" command, the time is set in the communications module and then kept automatically. This is necessary for the "MEM-STATUS"/"Tag\_Status" command to be executed error-free with MOBY U.
- If the values for the parameters "Calendar week" and "Year" = "0", "WRITE-CONFIG" has no effect on the clock in the communications module. If no date has yet been transferred after startup, the date does not continue to be kept.
- The set date is used for both channels of the communications module.

## Querying the battery with the command "MEM-STATUS" (MOBY U) or "Tag\_Status" (IID\_TAG\_STATUS\_80\_MOBY\_U)

This section relates to the section "3.4.4.2 Tag\_Status" of the function manual "Ident profile and Ident blocks" or the section "3.2.4.10 MEM-STATUS of the function manual "RFID standard profile".

### Change to the block

Table 2 Explanation of the block "Tag\_Status"/"MEM-STATUS" with the ATTRIBUTE = "0x80"

Parameter	Data type	Description
Tag_Status / MEM-STATUS	Array [1...16] of Byte	Status information of the MOBY U transponder

Table 3 Structure of the parameter

Byte	1...4	5	6...9	10...11	12	13	14...15	16
Value	UID	MDS_ type	sum_ subframe_ access	sum_ searchmode_ access	ST_date_ Week	ST_date_ Year	battery_ left	ST

---

### Trademarks

All names identified by ® are registered trademarks of Siemens AG. The remaining trademarks in this publication may be trademarks whose use by third parties for their own purposes could violate the rights of the owner.

### Disclaimer of Liability

We have reviewed the contents of this publication to ensure consistency with the hardware and software described. Since variance cannot be precluded entirely, we cannot guarantee full consistency. However, the information in this publication is reviewed regularly and any necessary corrections are included in subsequent editions.

Siemens AG  
Division Process Industries and Drives  
Postfach 48 48  
90026 NÜRNBERG

Product information on "Ident profile and Ident blocks" and "RFID standard profile"  
C79000-G8976-C398-02, 02/2015