

## Section 5.2

### Miscellaneous

---

#### What Is in This Section?

This section contains the following topics:

Topic	Page
User Map Variables	231
E_TeSys T Fast Access Profile Registers	233
EIOS_TeSys T Profile Registers	234

## User Map Variables

### Overview

User Map variables are designed to optimize the access to several non-contiguous registers in one single request.

You can define several read and write areas.

The user map can be defined via:

- a PC running SoMove with TeSys T DTM
- a PLC via the network port

### User Map Variables

**User Map Variables** are described below:

User map variable groups	Modbus/TCP (Register addresses)	EtherNet/IP (Object addresses)
User Map addresses	800 - 899	6D : 01 : 01 - 6D : 01 : 64
User Map values	900 - 999	6E : 01 : 01 - 6E : 01 : 64

Modbus/TCP (Register addresses)	EtherNet/IP (Object addresses)	Variable type	Read/Write variables	
800-898	6D : 01 : 01 - 6D : 01 : 63	Word[99]	User map addresses setting	
899	6D : 01 : 64	Word	(Reserved)	

Modbus/TCP (Register addresses)	EtherNet/IP (Object addresses)	Variable type	Read/Write variables	
900-998	6E : 01 : 01 - 6E : 01 : 63	Word[99]	User map values	
999	6E : 01 : 64	Word	(Reserved)	

The User Map Address group is used to select a list of addresses to read or write. It can be considered as a configuration area.

The User Map Value group is used to read or write values associated to addresses configured in the User Map Address area:

- Read or write of register 900 allows to read or write the register address defined in register 800
- Read or write of register 901 allows to read or write the register address defined in register 801,...

### Example of Use

The User Map Address configuration below gives an example of user map address configuration to access non-contiguous registers:

Modbus/TCP (Register addresses)	EtherNet/IP (Object addresses)	Value configured	Read/Write variables
800	6D : 01 : 01	452	Fault register 1
801	6D : 01 : 02	453	Fault register 2
802	6D : 01 : 03	461	Warning register 1
803	6D : 01 : 04	462	Warning register 2
804	6D : 01 : 05	450	Minimum wait time
805	6D : 01 : 06	500	Average current (0.01 A) MSW
806	6D : 01 : 07	501	Average current (0.01 A) LSW
850	6D : 01 : 51	651	HMI display items register 1
851	6D : 01 : 52	654	HMI display items register 2
852	6D : 01 : 53	705	Control register 2

With this configuration, monitoring information is accessible with one single read request through register addresses 900 to 906.

Configuration and command can be written with one single write using register addresses 950 to 952.

## E\_TeSys T Fast Access Profile Registers

### Overview

The profile E\_TeSys T Fast Access for LTM R Modbus/TCP controller is selected in the **Setting Process Channel Mode** of the parameter tab ([see page 43](#)).

### Status Registers (Read)

Status Registers (Read)	Signification
2500	Mirror status register
2501	Reserved
2502	System status 1 (= reg 455)
2503	System status 2 (= reg 456)
2504	Logic input status 3 (= reg 457)
2505	Logic output status (= reg 458)

### Status Registers (Write)

Status Registers (Write)	Signification
2506	Logic output command (= reg 700). Used for custom Logic
2507	Control register (= reg 704)
2508	Analog output command 1 (= reg 706). For future use

## EIOS\_TeSys T Profile Registers

### Overview

The profile EIOS\_TeSys T for LTM R Modbus/TCP controller is selected in the **Setting Process Channel Mode** of the parameter tab ([see page 43](#)).

### Status Registers (Read)

Status Registers (Read)	Signification
451	Fault code
452	Fault register 1
453	Fault register 2
454	Logic input status 3 (= reg 457)
455	System Status register 1
456	System Status register 1
457	Logic Input status
458	Logic Output status
459	I/O status
460	Warning code
461	Warning register 1
462	Warning register 2
463	Warning register 3
464	Motor Temperature Sensor Degree
465	Thermal Capacity Level
466	Average current Ratio
467	L1 current ratio
468	L2 current ratio
469	L3 current ratio
470	Ground Current ratio
471	Current phase Imbalance
472	Controller: Internal Temperature
473	Controller config checksum
474	Frequency
475	Motor temperature sensor
476	Average voltage
477	L3L1 voltage
478	L1L2 voltage
479	L2L3 voltage
480	Voltage phase Imbalance
481	Power factor
482	Active power
483	Reactive power
484	Auto restart status register
485	Controller: Last power off duration
486	Reserved
487	Reserved
488	Reserved
489	Reserved
490	Network port monitoring register 1
491	Network port monitoring register 2
492	Network port monitoring register 3
493	Network port monitoring register 4

Status Registers (Read)	Signification
494	Network port monitoring register 5
495	Network port monitoring register 6
496	Network port monitoring register 7
497	Network port monitoring register 8
498	Network port monitoring register 9
499	Network port monitoring register 10
500	Average current MSB
501	Average current LSB
502	L1 current MSB
503	L1 current LSB
504	L2 current MSB
505	L2 current LSB
506	L3 current MSB
507	L3 current LSB
508	Ground current MSB
509	Ground current LSB
510	Controller port ID
511	Time to trip
512	Motor Last start current ratio
513	Motor Last start duration
514	Motor Starts per hour count

### Status Registers (Write)

Status Registers (Write)	Signification
700	Logic outputs command register
701	Reserved
702	Reserved
703	Reserved
704	Control register 1