

General

Application

Industrialization

## General

### Identification

#### Product identification

| Dec start address | Hex start address | Type | Size | Lock level | Locked fcts | Unlocked fcts |
|-------------------|-------------------|------|------|------------|-------------|---------------|
| 50000             | 0xC350            | Info | 66   | NONE       | READ        | READ          |

| Dec address | Hex address | Words count | Description                                                         | Unit | Data type   |
|-------------|-------------|-------------|---------------------------------------------------------------------|------|-------------|
| 50000       | 0xC350      | 4           | "SOCO"                                                              | -    | STRING_16   |
| 50004       | 0xC354      | 1           | Product order ID (Countis:100, Protection:200, Atys:300, Diris:400) | -    | U16         |
| 50005       | 0xC355      | 1           | Product ID (EX: 1000 ATS3)                                          | -    | U16         |
| 50006       | 0xC356      | 1           | JBUS Table Version (EX: 101 Version 1.01)                           | -    | U16         |
| 50007       | 0xC357      | 1           | Product software version (EX: 100 Version 1.00)                     | -    | U16         |
| 50008       | 0xC358      | 1           | Serial_AA_SS                                                        | -    | U16_HEX     |
| 50009       | 0xC359      | 1           | Serial_SST_L                                                        | -    | U16_HEX     |
| 50010       | 0xC35A      | 1           | Serial_order                                                        | -    | U16         |
| 50011       | 0xC35B      | 2           | Serial_Reserve                                                      | -    | U32         |
| 50013       | 0xC35D      | 4           | See "Code table" tab for more details                               | -    | U64_HEX     |
| 50017       | 0xC361      | 1           | Reserved                                                            | -    | -           |
| 50018       | 0xC362      | 1           | Product version (Major)                                             | -    | U16         |
| 50019       | 0xC363      | 1           | Product version (Minor)                                             | -    | U16         |
| 50020       | 0xC364      | 1           | Reserved                                                            | -    | -           |
| 50021       | 0xC365      | 1           | Reserved                                                            | -    | -           |
| 50022       | 0xC366      | 3           | Reserved                                                            | -    | -           |
| 50025       | 0xC369      | 1           | Reserved                                                            | -    | -           |
| 50026       | 0xC36A      | 1           | Reserved                                                            | -    | -           |
| 50027       | 0xC36B      | 1           | Reserved                                                            | -    | -           |
| 50028       | 0xC36C      | 1           | Reserved                                                            | -    | -           |
| 50029       | 0xC36D      | 1           | Reserved                                                            | -    | -           |
| 50030       | 0xC36E      | 4           | Product VLO (EX : "880100")                                         | -    | STRING_NORM |
| 50034       | 0xC372      | 4           | Reserved                                                            | -    | -           |
| 50038       | 0xC376      | 4           | Reserved                                                            | -    | -           |
| 50042       | 0xC37A      | 8           | Vendor name (EX : "SOCOMECS")                                       | -    | STRING_NORM |
| 50050       | 0xC382      | 8           | Product name (EX : "DIRIS A40R")                                    | -    | STRING_NORM |
| 50058       | 0xC38A      | 8           | Extended name                                                       | -    | STRING_NORM |

### Common settings

#### Modbus Parameters

| Dec start address | Hex start address | Type     | Size | Lock level | Locked fcts               | Unlocked fcts             |
|-------------------|-------------------|----------|------|------------|---------------------------|---------------------------|
| 36865             | 0x9001            | Settings | 3    | NONE       | READ   WRITE   WRITE_MANY | READ   WRITE   WRITE_MANY |

| Dec address | Hex address | Words count | Description                                                                                 | Unit | Data type |
|-------------|-------------|-------------|---------------------------------------------------------------------------------------------|------|-----------|
| 36865       | 0x9001      | 1           | RS485 Address : 1 - 247                                                                     | -    | U16       |
| 36866       | 0x9002      | 1           | RS485 Baud rate :<br>0 : 1200<br>1 : 2400<br>2 : 4800<br>3 : 9600<br>4 : 19200<br>5 : 38400 | -    | U16       |

|       |        |   |                                                        |   |     |
|-------|--------|---|--------------------------------------------------------|---|-----|
| 36867 | 0x9003 | 1 | RS485 Parity :<br>0 : No Parity<br>1 : Odd<br>2 : Even | - | U16 |
|-------|--------|---|--------------------------------------------------------|---|-----|

## Actions

### Action system

| Dec start address | Hex start address | Type     | Size | Lock level | Locked fcts | Unlocked fcts |
|-------------------|-------------------|----------|------|------------|-------------|---------------|
| 57856             | 0xE200            | Commands | 1    | NONE       | WRITE       | WRITE         |

| Dec address | Hex address | Words count | Description                                                              | Unit | Data type |
|-------------|-------------|-------------|--------------------------------------------------------------------------|------|-----------|
| 57856       | 0xE200      | 1           | Action :<br>0xA1 : Product Configuration storage<br>0xB2 : Product reset | -    | U8_HEX    |

### Value reset

| Dec start address | Hex start address | Type     | Size | Lock level | Locked fcts | Unlocked fcts |
|-------------------|-------------------|----------|------|------------|-------------|---------------|
| 57888             | 0xE220            | Commands | 5    | NONE       | WRITE       | WRITE         |

| Dec address | Hex address | Words count | Description                                                                                                                     | Unit | Data type |
|-------------|-------------|-------------|---------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 57888       | 0xE220      | 1           | Reserved                                                                                                                        | -    | -         |
| 57889       | 0xE221      | 1           | Reserved                                                                                                                        | -    | -         |
| 57890       | 0xE222      | 1           | Reset :<br>0x0001 : Partial Ea+<br>0x0002 : Partial Er+<br>0x0004 : Partial Eap<br>0x0008 : Partial Ea-<br>0x0010 : Partial Er- | -    | U16_HEX   |
| 57891       | 0xE223      | 1           | Reserved                                                                                                                        | -    | -         |
| 57892       | 0xE224      | 1           | Reserved                                                                                                                        | -    | -         |

## Application

### Measurement

#### Common

#### Metrology Affected by current and voltage transformers

| Dec start address | Hex start address | Type | Size | Lock level | Locked fcts | Unlocked fcts |
|-------------------|-------------------|------|------|------------|-------------|---------------|
| 50512             | 0xC550            | Info | 62   | NONE       | READ        | READ          |

| Dec address | Hex address | Words count | Description                | Unit      | Data type |
|-------------|-------------|-------------|----------------------------|-----------|-----------|
| 50512       | 0xC550      | 2           | Reserved                   | -         | -         |
| 50514       | 0xC552      | 2           | Reserved                   | -         | -         |
| 50516       | 0xC554      | 2           | Reserved                   | -         | -         |
| 50518       | 0xC556      | 2           | Reserved                   | -         | -         |
| 50520       | 0xC558      | 2           | Simple voltage : V1        | V / 100   | U32       |
| 50522       | 0xC55A      | 2           | Reserved                   | -         | -         |
| 50524       | 0xC55C      | 2           | Reserved                   | -         | -         |
| 50526       | 0xC55E      | 2           | Frequency : F              | Hz / 1000 | U32       |
| 50528       | 0xC560      | 2           | Current : I1               | A / 1000  | U32       |
| 50530       | 0xC562      | 2           | Reserved                   | -         | -         |
| 50532       | 0xC564      | 2           | Reserved                   | -         | -         |
| 50534       | 0xC566      | 2           | Reserved                   | -         | -         |
| 50536       | 0xC568      | 2           | Sum Active Power +/- : P   | W / 0.1   | S32       |
| 50538       | 0xC56A      | 2           | Sum Reactive Power +/- : Q | var / 0.1 | S32       |
| 50540       | 0xC56C      | 2           | Sum Apparent Power : S     | VA / 0.1  | U32       |

|       |        |   |                                                        |           |     |
|-------|--------|---|--------------------------------------------------------|-----------|-----|
| 50542 | 0xC56E | 2 | Sum Power Factor : - : leading et + : lagging : PF     | - / 1000  | S32 |
| 50544 | 0xC570 | 2 | Active Power phase 1 +/- : P1                          | W / 0.1   | S32 |
| 50546 | 0xC572 | 2 | Reserved                                               | -         | -   |
| 50548 | 0xC574 | 2 | Reserved                                               | -         | -   |
| 50550 | 0xC576 | 2 | Reactive Power phase 1 +/- : Q1                        | var / 0.1 | S32 |
| 50552 | 0xC578 | 2 | Reserved                                               | -         | -   |
| 50554 | 0xC57A | 2 | Reserved                                               | -         | -   |
| 50556 | 0xC57C | 2 | Apparent Power phase 1 : S1                            | VA / 0.1  | U32 |
| 50558 | 0xC57E | 2 | Reserved                                               | -         | -   |
| 50560 | 0xC580 | 2 | Reserved                                               | -         | -   |
| 50562 | 0xC582 | 2 | Power Factor phase 1 - : leading and + : lagging : PF1 | - / 1000  | S32 |
| 50564 | 0xC584 | 2 | Reserved                                               | -         | -   |
| 50566 | 0xC586 | 2 | Reserved                                               | -         | -   |
| 50568 | 0xC588 | 2 | Reserved                                               | -         | -   |
| 50570 | 0xC58A | 2 | Reserved                                               | -         | -   |
| 50572 | 0xC58C | 2 | Reserved                                               | -         | -   |

### **Metrology No Affected by current and voltage transformers**

| Dec start address | Hex start address | Type | Size | Lock level | Locked fcts | Unlocked fcts |
|-------------------|-------------------|------|------|------------|-------------|---------------|
| 51280             | 0xC850            | Info | 36   | NONE       | READ        | READ          |

| Dec address | Hex address | Words count | Description                                            | Unit         | Data type |
|-------------|-------------|-------------|--------------------------------------------------------|--------------|-----------|
| 51280       | 0xC850      | 1           | Reserved                                               | -            | -         |
| 51281       | 0xC851      | 1           | Reserved                                               | -            | -         |
| 51282       | 0xC852      | 1           | Reserved                                               | -            | -         |
| 51283       | 0xC853      | 1           | Reserved                                               | -            | -         |
| 51284       | 0xC854      | 1           | Simple voltage : V1                                    | V / 100      | U16       |
| 51285       | 0xC855      | 1           | Reserved                                               | -            | -         |
| 51286       | 0xC856      | 1           | Reserved                                               | -            | -         |
| 51287       | 0xC857      | 1           | Frequency : F                                          | Hz / 1000    | U16       |
| 51288       | 0xC858      | 1           | Reserved                                               | -            | -         |
| 51289       | 0xC859      | 1           | Reserved                                               | -            | -         |
| 51290       | 0xC85A      | 1           | Reserved                                               | -            | -         |
| 51291       | 0xC85B      | 1           | Reserved                                               | -            | -         |
| 51292       | 0xC85C      | 1           | Reserved                                               | -            | -         |
| 51293       | 0xC85D      | 1           | Reserved                                               | -            | -         |
| 51294       | 0xC85E      | 1           | Reserved                                               | -            | -         |
| 51295       | 0xC85F      | 1           | Sum power factor : - : leading and + : lagging : PF    | - / 1000     | S16       |
| 51296       | 0xC860      | 1           | Reserved                                               | -            | -         |
| 51297       | 0xC861      | 1           | Reserved                                               | -            | -         |
| 51298       | 0xC862      | 1           | Reserved                                               | -            | -         |
| 51299       | 0xC863      | 1           | Reserved                                               | -            | -         |
| 51300       | 0xC864      | 1           | Reserved                                               | -            | -         |
| 51301       | 0xC865      | 1           | Reserved                                               | -            | -         |
| 51302       | 0xC866      | 1           | Reserved                                               | -            | -         |
| 51303       | 0xC867      | 1           | Reserved                                               | -            | -         |
| 51304       | 0xC868      | 1           | Reserved                                               | -            | -         |
| 51305       | 0xC869      | 1           | Power Factor phase 1 - : leading and + : lagging : PF1 | - / 1000     | S16       |
| 51306       | 0xC86A      | 1           | Reserved                                               | -            | -         |
| 51307       | 0xC86B      | 1           | Reserved                                               | -            | -         |
| 51308       | 0xC86C      | 1           | Reserved                                               | -            | -         |
| 51309       | 0xC86D      | 1           | Reserved                                               | -            | -         |
| 51310       | 0xC86E      | 1           | Reserved                                               | -            | -         |
| 51311       | 0xC86F      | 1           | Total Positive Active Energy (no resetable) : Ea+      | Wh / 1E-06   | U16       |
| 51312       | 0xC870      | 1           | Total Positive Reactive Energy (no resetable) : Er +   | varh / 1E-06 | U16       |
| 51313       | 0xC871      | 1           | Total Negative Active Energy (no resetable) : Ea-      | Wh / 1E-06   | U16       |
| 51314       | 0xC872      | 1           | Total Negative Reactive Energy (no resetable) : Er -   | varh / 1E-06 | U16       |
| 51315       | 0xC873      | 1           | Reserved                                               | -            | -         |

### **Energies**

| Dec start address | Hex start address | Type | Size | Lock level | Locked fcts | Unlocked fcts |
|-------------------|-------------------|------|------|------------|-------------|---------------|
| 50768             | 0xC650            | Info | 65   | NONE       | READ        | READ          |

| Dec address | Hex address | Words count | Description                                          | Unit         | Data type |
|-------------|-------------|-------------|------------------------------------------------------|--------------|-----------|
| 50768       | 0xC650      | 2           | Reserved                                             | -            | -         |
| 50770       | 0xC652      | 2           | Total Positive Active Energy (no resetable) : Ea+    | Wh / 0.001   | U32       |
| 50772       | 0xC654      | 2           | Total Positive Reactive Energy (no resetable) : Er + | varh / 0.001 | U32       |
| 50774       | 0xC656      | 2           | Total Apparent Energy (no resetable) : Eap           | VAh / 0.001  | U32       |
| 50776       | 0xC658      | 2           | Total Negative Active Energy (no resetable) : Ea-    | Wh / 0.001   | U32       |
| 50778       | 0xC65A      | 2           | Total Negative Reactive Energy (no resetable) : Er - | varh / 0.001 | U32       |
| 50780       | 0xC65C      | 2           | Partial Positive Active Energy: Ea+                  | Wh / 0.001   | U32       |
| 50782       | 0xC65E      | 2           | Partial Positive Reactive Energy: Er +               | varh / 0.001 | U32       |
| 50784       | 0xC660      | 2           | Partial Apparent Energy : Eap                        | VAh / 0.001  | U32       |
| 50786       | 0xC662      | 2           | Partial Negative Active Energy : Ea-                 | Wh / 0.001   | U32       |
| 50788       | 0xC664      | 2           | Partial Negative Reactive Energy : Er -              | varh / 0.001 | U32       |
| 50790       | 0xC666      | 2           | Reserved                                             | -            | -         |
| 50792       | 0xC668      | 2           | Reserved                                             | -            | -         |
| 50794       | 0xC66A      | 2           | Reserved                                             | -            | -         |
| 50796       | 0xC66C      | 2           | Reserved                                             | -            | -         |
| 50798       | 0xC66E      | 2           | Reserved                                             | -            | -         |
| 50800       | 0xC670      | 2           | Reserved                                             | -            | -         |
| 50802       | 0xC672      | 2           | Reserved                                             | -            | -         |
| 50804       | 0xC674      | 2           | Reserved                                             | -            | -         |
| 50806       | 0xC676      | 2           | Reserved                                             | -            | -         |
| 50808       | 0xC678      | 2           | Reserved                                             | -            | -         |
| 50810       | 0xC67A      | 2           | Reserved                                             | -            | -         |
| 50812       | 0xC67C      | 2           | Reserved                                             | -            | -         |
| 50814       | 0xC67E      | 2           | Reserved                                             | -            | -         |
| 50816       | 0xC680      | 2           | Reserved                                             | -            | -         |
| 50818       | 0xC682      | 2           | Reserved                                             | -            | -         |
| 50820       | 0xC684      | 2           | Reserved                                             | -            | -         |
| 50822       | 0xC686      | 2           | Reserved                                             | -            | -         |
| 50824       | 0xC688      | 2           | Reserved                                             | -            | -         |
| 50826       | 0xC68A      | 2           | Reserved                                             | -            | -         |
| 50828       | 0xC68C      | 1           | Reserved                                             | -            | -         |
| 50829       | 0xC68D      | 1           | Reserved                                             | -            | -         |
| 50830       | 0xC68E      | 1           | Reserved                                             | -            | -         |
| 50831       | 0xC68F      | 1           | Reserved                                             | -            | -         |
| 50832       | 0xC690      | 1           | Reserved                                             | -            | -         |

### Energies in Unit/100

| Dec start address | Hex start address | Type | Size | Lock level | Locked fcts | Unlocked fcts |
|-------------------|-------------------|------|------|------------|-------------|---------------|
| 50944             | 0xC700            | Info | 65   | NONE       | READ        | READ          |

| Dec address | Hex address | Words count | Description                                          | Unit       | Data type |
|-------------|-------------|-------------|------------------------------------------------------|------------|-----------|
| 50944       | 0xC700      | 2           | Reserved                                             | -          | -         |
| 50946       | 0xC702      | 2           | Total Positive Active Energy (no resetable) : Ea+    | Wh / 0.1   | U32       |
| 50948       | 0xC704      | 2           | Total Positive Reactive Energy (no resetable) : Er + | varh / 0.1 | U32       |
| 50950       | 0xC706      | 2           | Reserved                                             | -          | -         |
| 50952       | 0xC708      | 2           | Total Negative Active Energy (no resetable) : Ea-    | Wh / 0.1   | U32       |
| 50954       | 0xC70A      | 2           | Total Negative Reactive Energy (no resetable) : Er - | varh / 0.1 | U32       |
| 50956       | 0xC70C      | 2           | Partial Positive Active Energy: Ea+                  | Wh / 0.1   | U32       |
| 50958       | 0xC70E      | 2           | Partial Positive Reactive Energy: Er +               | varh / 0.1 | U32       |
| 50960       | 0xC710      | 2           | Reserved                                             | -          | -         |
| 50962       | 0xC712      | 2           | Partial Negative Active Energy : Ea-                 | Wh / 0.1   | U32       |
| 50964       | 0xC714      | 2           | Partial Negative Reactive Energy : Er -              | varh / 0.1 | U32       |
| 50966       | 0xC716      | 2           | Reserved                                             | -          | -         |
| 50968       | 0xC718      | 2           | Reserved                                             | -          | -         |
| 50970       | 0xC71A      | 2           | Reserved                                             | -          | -         |
| 50972       | 0xC71C      | 2           | Reserved                                             | -          | -         |

|       |        |   |          |   |   |
|-------|--------|---|----------|---|---|
| 50974 | 0xC71E | 2 | Reserved | - | - |
| 50976 | 0xC720 | 2 | Reserved | - | - |
| 50978 | 0xC722 | 2 | Reserved | - | - |
| 50980 | 0xC724 | 2 | Reserved | - | - |
| 50982 | 0xC726 | 2 | Reserved | - | - |
| 50984 | 0xC728 | 2 | Reserved | - | - |
| 50986 | 0xC72A | 2 | Reserved | - | - |
| 50988 | 0xC72C | 2 | Reserved | - | - |
| 50990 | 0xC72E | 2 | Reserved | - | - |
| 50992 | 0xC730 | 2 | Reserved | - | - |
| 50994 | 0xC732 | 2 | Reserved | - | - |
| 50996 | 0xC734 | 2 | Reserved | - | - |
| 50998 | 0xC736 | 2 | Reserved | - | - |
| 51000 | 0xC738 | 2 | Reserved | - | - |
| 51002 | 0xC73A | 2 | Reserved | - | - |
| 51004 | 0xC73C | 1 | Reserved | - | - |
| 51005 | 0xC73D | 1 | Reserved | - | - |
| 51006 | 0xC73E | 1 | Reserved | - | - |
| 51007 | 0xC73F | 1 | Reserved | - | - |
| 51008 | 0xC740 | 1 | Reserved | - | - |

### Energies per tariff

| Dec start address | Hex start address | Type | Size | Lock level | Locked fcts | Unlocked fcts |
|-------------------|-------------------|------|------|------------|-------------|---------------|
| 50848             | 0xC6A0            | Info | 50   | NONE       | READ        | READ          |

| Dec address | Hex address | Words count | Description                          | Unit         | Data type |
|-------------|-------------|-------------|--------------------------------------|--------------|-----------|
| 50848       | 0xC6A0      | 1           | 1 >= Tariff number <= 2              | -            | U8        |
| 50849       | 0xC6A1      | 1           | Tariff number in progress ( 1 to 2 ) | -            | U8        |
| 50850       | 0xC6A2      | 2           | Positive Active Energies 1           | Wh / 0.001   | U32       |
| 50852       | 0xC6A4      | 2           | Positive Active Energies 2           | Wh / 0.001   | U32       |
| 50854       | 0xC6A6      | 2           | Reserved                             | -            | -         |
| 50856       | 0xC6A8      | 2           | Reserved                             | -            | -         |
| 50858       | 0xC6AA      | 2           | Reserved                             | -            | -         |
| 50860       | 0xC6AC      | 2           | Reserved                             | -            | -         |
| 50862       | 0xC6AE      | 2           | Reserved                             | -            | -         |
| 50864       | 0xC6B0      | 2           | Reserved                             | -            | -         |
| 50866       | 0xC6B2      | 2           | Positive Reactive Energies 1         | varh / 0.001 | U32       |
| 50868       | 0xC6B4      | 2           | Positive Reactive Energies 2         | varh / 0.001 | U32       |
| 50870       | 0xC6B6      | 2           | Reserved                             | -            | -         |
| 50872       | 0xC6B8      | 2           | Reserved                             | -            | -         |
| 50874       | 0xC6BA      | 2           | Reserved                             | -            | -         |
| 50876       | 0xC6BC      | 2           | Reserved                             | -            | -         |
| 50878       | 0xC6BE      | 2           | Reserved                             | -            | -         |
| 50880       | 0xC6C0      | 2           | Reserved                             | -            | -         |
| 50882       | 0xC6C2      | 2           | Time Counter 1                       | h / 100      | U32       |
| 50884       | 0xC6C4      | 2           | Time Counter 2                       | h / 100      | U32       |
| 50886       | 0xC6C6      | 2           | Reserved                             | -            | -         |
| 50888       | 0xC6C8      | 2           | Reserved                             | -            | -         |
| 50890       | 0xC6CA      | 2           | Reserved                             | -            | -         |
| 50892       | 0xC6CC      | 2           | Reserved                             | -            | -         |
| 50894       | 0xC6CE      | 2           | Reserved                             | -            | -         |
| 50896       | 0xC6D0      | 2           | Reserved                             | -            | -         |

### Energies per tariff in Unit/100

| Dec start address | Hex start address | Type | Size | Lock level | Locked fcts | Unlocked fcts |
|-------------------|-------------------|------|------|------------|-------------|---------------|
| 51200             | 0xC800            | Info | 50   | NONE       | READ        | READ          |

| Dec address | Hex address | Words count | Description             | Unit | Data type |
|-------------|-------------|-------------|-------------------------|------|-----------|
| 51200       | 0xC800      | 1           | 1 >= Tariff number <= 2 | -    | U8        |

|       |        |   |                                      |            |     |
|-------|--------|---|--------------------------------------|------------|-----|
| 51201 | 0xC801 | 1 | Tariff number in progress ( 1 to 2 ) | -          | U8  |
| 51202 | 0xC802 | 2 | Positive Active Energies 1           | Wh / 0.1   | U32 |
| 51204 | 0xC804 | 2 | Positive Active Energies 2           | Wh / 0.1   | U32 |
| 51206 | 0xC806 | 2 | Reserved                             | -          | -   |
| 51208 | 0xC808 | 2 | Reserved                             | -          | -   |
| 51210 | 0xC80A | 2 | Reserved                             | -          | -   |
| 51212 | 0xC80C | 2 | Reserved                             | -          | -   |
| 51214 | 0xC80E | 2 | Reserved                             | -          | -   |
| 51216 | 0xC810 | 2 | Reserved                             | -          | -   |
| 51218 | 0xC812 | 2 | Positive Reactive Energies 1         | varh / 0.1 | U32 |
| 51220 | 0xC814 | 2 | Positive Reactive Energies 2         | varh / 0.1 | U32 |
| 51222 | 0xC816 | 2 | Reserved                             | -          | -   |
| 51224 | 0xC818 | 2 | Reserved                             | -          | -   |
| 51226 | 0xC81A | 2 | Reserved                             | -          | -   |
| 51228 | 0xC81C | 2 | Reserved                             | -          | -   |
| 51230 | 0xC81E | 2 | Reserved                             | -          | -   |
| 51232 | 0xC820 | 2 | Reserved                             | -          | -   |
| 51234 | 0xC822 | 2 | Time Counter 1                       | h / 100    | U32 |
| 51236 | 0xC824 | 2 | Time Counter 2                       | h / 100    | U32 |
| 51238 | 0xC826 | 2 | Reserved                             | -          | -   |
| 51240 | 0xC828 | 2 | Reserved                             | -          | -   |
| 51242 | 0xC82A | 2 | Reserved                             | -          | -   |
| 51244 | 0xC82C | 2 | Reserved                             | -          | -   |
| 51246 | 0xC82E | 2 | Reserved                             | -          | -   |
| 51248 | 0xC830 | 2 | Reserved                             | -          | -   |

### Energy measurement - Total

| Dec start address | Hex start address | Type | Size | Lock level | Locked fcts | Unlocked fcts |
|-------------------|-------------------|------|------|------------|-------------|---------------|
| 19840             | 0x4D80            | Info | 66   | NONE       | READ        | READ          |

| Dec address | Hex address | Words count | Description                                                      | Unit         | Data type |
|-------------|-------------|-------------|------------------------------------------------------------------|--------------|-----------|
| 19840       | 0x4D80      | 1           | Reserved                                                         | -            | -         |
| 19841       | 0x4D81      | 2           | Reserved                                                         | -            | -         |
| 19843       | 0x4D83      | 2           | Total Positive active Energy : Ea+                               | Wh / 0.001   | U32       |
| 19845       | 0x4D85      | 1           | Total Residual positive active Energy : rEa+                     | Wh / 10      | U16       |
| 19846       | 0x4D86      | 2           | Total Negative active Energy : Ea-                               | Wh / 0.001   | U32       |
| 19848       | 0x4D88      | 1           | Total Residual negative active Energy : rEa-                     | Wh / 10      | U16       |
| 19849       | 0x4D89      | 2           | Total Positive reactive Energy : Er+                             | varh / 0.001 | U32       |
| 19851       | 0x4D8B      | 1           | Total Residual positive reactive Energy : rEr+                   | varh / 10    | U16       |
| 19852       | 0x4D8C      | 2           | Total Negative reactive Energy : Er-                             | varh / 0.001 | U32       |
| 19854       | 0x4D8E      | 1           | Total Residual negative reactive Energy : rEr-                   | varh / 10    | U16       |
| 19855       | 0x4D8F      | 2           | Total Apparent Energy : Eap                                      | VAh / 0.001  | U32       |
| 19857       | 0x4D91      | 1           | Total Residual apparent Energy : rEap                            | VAh / 10     | U16       |
| 19858       | 0x4D92      | 2           | Total positive lagging reactive Energy : Er+ (lagging)           | varh / 0.001 | U32       |
| 19860       | 0x4D94      | 1           | Total residual positive lagging reactive Energy : rEr+ (lagging) | varh / 10    | U16       |
| 19861       | 0x4D95      | 2           | Total negative lagging reactive Energy : Er- (lagging)           | varh / 0.001 | U32       |
| 19863       | 0x4D97      | 1           | Total residual negative lagging reactive Energy : rEr- (lagging) | varh / 10    | U16       |
| 19864       | 0x4D98      | 2           | Total positive leading reactive Energy : Er+ (leading)           | varh / 0.001 | U32       |
| 19866       | 0x4D9A      | 1           | Total residual positive leading reactive Energy : rEr+ (leading) | varh / 10    | U16       |
| 19867       | 0x4D9B      | 2           | Total negative leading reactive Energy : Er- (leading)           | varh / 0.001 | U32       |
| 19869       | 0x4D9D      | 1           | Total residual negative leading reactive Energy : rEr- (leading) | varh / 10    | U16       |
| 19870       | 0x4D9E      | 2           | Reserved                                                         | -            | -         |
| 19872       | 0x4DA0      | 2           | Reserved                                                         | -            | -         |
| 19874       | 0x4DA2      | 1           | Reserved                                                         | -            | -         |
| 19875       | 0x4DA3      | 2           | Reserved                                                         | -            | -         |
| 19877       | 0x4DA5      | 1           | Reserved                                                         | -            | -         |
| 19878       | 0x4DA6      | 2           | Reserved                                                         | -            | -         |
| 19880       | 0x4DA8      | 1           | Reserved                                                         | -            | -         |
| 19881       | 0x4DA9      | 2           | Reserved                                                         | -            | -         |
| 19883       | 0x4DAB      | 1           | Reserved                                                         | -            | -         |
| 19884       | 0x4DAC      | 2           | Reserved                                                         | -            | -         |

|       |        |   |          |   |   |
|-------|--------|---|----------|---|---|
| 19886 | 0x4DAE |   | Reserved | - | - |
| 19887 | 0x4DAF | 2 | Reserved | - | - |
| 19889 | 0x4DB1 | 2 | Reserved | - | - |
| 19891 | 0x4DB3 | 2 | Reserved | - | - |
| 19893 | 0x4DB5 | 1 | Reserved | - | - |
| 19894 | 0x4DB6 | 2 | Reserved | - | - |
| 19896 | 0x4DB8 | 1 | Reserved | - | - |
| 19897 | 0x4DB9 | 2 | Reserved | - | - |
| 19899 | 0x4DBB | 1 | Reserved | - | - |
| 19900 | 0x4DBC | 2 | Reserved | - | - |
| 19902 | 0x4DBE | 1 | Reserved | - | - |
| 19903 | 0x4DBF | 2 | Reserved | - | - |
| 19905 | 0x4DC1 | 1 | Reserved | - | - |

**Tariff meter (total) - Total**

| Dec start address | Hex start address | Type | Size | Lock level | Locked fcts | Unlocked fcts |
|-------------------|-------------------|------|------|------------|-------------|---------------|
| 26368             | 0x6700            | Info | 145  | NONE       | READ        | READ          |

| Dec address | Hex address | Words count | Description                                               | Unit         | Data type |
|-------------|-------------|-------------|-----------------------------------------------------------|--------------|-----------|
| 26368       | 0x6700      | 1           | Tariff number in progress<br>1 : Tariff 1<br>2 : Tariff 2 | -            | U16       |
| 26369       | 0x6701      | 2           | T1 - Ea+                                                  | Wh / 0.001   | U32       |
| 26371       | 0x6703      | 2           | T2 - Ea+                                                  | Wh / 0.001   | U32       |
| 26373       | 0x6705      | 2           | Reserved                                                  | -            | -         |
| 26375       | 0x6707      | 2           | Reserved                                                  | -            | -         |
| 26377       | 0x6709      | 2           | Reserved                                                  | -            | -         |
| 26379       | 0x670B      | 2           | Reserved                                                  | -            | -         |
| 26381       | 0x670D      | 2           | Reserved                                                  | -            | -         |
| 26383       | 0x670F      | 2           | Reserved                                                  | -            | -         |
| 26385       | 0x6711      | 2           | T1 - Ea-                                                  | Wh / 0.001   | U32       |
| 26387       | 0x6713      | 2           | T2 - Ea-                                                  | Wh / 0.001   | U32       |
| 26389       | 0x6715      | 2           | Reserved                                                  | -            | -         |
| 26391       | 0x6717      | 2           | Reserved                                                  | -            | -         |
| 26393       | 0x6719      | 2           | Reserved                                                  | -            | -         |
| 26395       | 0x671B      | 2           | Reserved                                                  | -            | -         |
| 26397       | 0x671D      | 2           | Reserved                                                  | -            | -         |
| 26399       | 0x671F      | 2           | Reserved                                                  | -            | -         |
| 26401       | 0x6721      | 2           | T1 - Er+                                                  | varh / 0.001 | U32       |
| 26403       | 0x6723      | 2           | T2 - Er+                                                  | varh / 0.001 | U32       |
| 26405       | 0x6725      | 2           | Reserved                                                  | -            | -         |
| 26407       | 0x6727      | 2           | Reserved                                                  | -            | -         |
| 26409       | 0x6729      | 2           | Reserved                                                  | -            | -         |
| 26411       | 0x672B      | 2           | Reserved                                                  | -            | -         |
| 26413       | 0x672D      | 2           | Reserved                                                  | -            | -         |
| 26415       | 0x672F      | 2           | Reserved                                                  | -            | -         |
| 26417       | 0x6731      | 2           | T1 - Er+ (lagging)                                        | varh / 0.001 | U32       |
| 26419       | 0x6733      | 2           | T2 - Er+ (lagging)                                        | varh / 0.001 | U32       |
| 26421       | 0x6735      | 2           | Reserved                                                  | -            | -         |
| 26423       | 0x6737      | 2           | Reserved                                                  | -            | -         |
| 26425       | 0x6739      | 2           | Reserved                                                  | -            | -         |
| 26427       | 0x673B      | 2           | Reserved                                                  | -            | -         |
| 26429       | 0x673D      | 2           | Reserved                                                  | -            | -         |
| 26431       | 0x673F      | 2           | Reserved                                                  | -            | -         |
| 26433       | 0x6741      | 2           | T1 - Er+ (leading)                                        | varh / 0.001 | U32       |
| 26435       | 0x6743      | 2           | T2 - Er+ (leading)                                        | varh / 0.001 | U32       |
| 26437       | 0x6745      | 2           | Reserved                                                  | -            | -         |
| 26439       | 0x6747      | 2           | Reserved                                                  | -            | -         |
| 26441       | 0x6749      | 2           | Reserved                                                  | -            | -         |
| 26443       | 0x674B      | 2           | Reserved                                                  | -            | -         |
| 26445       | 0x674D      | 2           | Reserved                                                  | -            | -         |
| 26447       | 0x674F      | 2           | Reserved                                                  | -            | -         |

|       |        |   |                    |              |     |
|-------|--------|---|--------------------|--------------|-----|
| 26449 | 0x6751 | 2 | T1 - Er-           | varh / 0.001 | U32 |
| 26451 | 0x6753 | 2 | T2 - Er-           | varh / 0.001 | U32 |
| 26453 | 0x6755 | 2 | Reserved           | -            | -   |
| 26455 | 0x6757 | 2 | Reserved           | -            | -   |
| 26457 | 0x6759 | 2 | Reserved           | -            | -   |
| 26459 | 0x675B | 2 | Reserved           | -            | -   |
| 26461 | 0x675D | 2 | Reserved           | -            | -   |
| 26463 | 0x675F | 2 | Reserved           | -            | -   |
| 26465 | 0x6761 | 2 | T1 - Er- (lagging) | varh / 0.001 | U32 |
| 26467 | 0x6763 | 2 | T2 - Er- (lagging) | varh / 0.001 | U32 |
| 26469 | 0x6765 | 2 | Reserved           | -            | -   |
| 26471 | 0x6767 | 2 | Reserved           | -            | -   |
| 26473 | 0x6769 | 2 | Reserved           | -            | -   |
| 26475 | 0x676B | 2 | Reserved           | -            | -   |
| 26477 | 0x676D | 2 | Reserved           | -            | -   |
| 26479 | 0x676F | 2 | Reserved           | -            | -   |
| 26481 | 0x6771 | 2 | T1 - Er- (leading) | varh / 0.001 | U32 |
| 26483 | 0x6773 | 2 | T2 - Er- (leading) | varh / 0.001 | U32 |
| 26485 | 0x6775 | 2 | Reserved           | -            | -   |
| 26487 | 0x6777 | 2 | Reserved           | -            | -   |
| 26489 | 0x6779 | 2 | Reserved           | -            | -   |
| 26491 | 0x677B | 2 | Reserved           | -            | -   |
| 26493 | 0x677D | 2 | Reserved           | -            | -   |
| 26495 | 0x677F | 2 | Reserved           | -            | -   |
| 26497 | 0x6781 | 2 | T1 - Eap           | VAh / 0.001  | U32 |
| 26499 | 0x6783 | 2 | T2 - Eap           | VAh / 0.001  | U32 |
| 26501 | 0x6785 | 2 | Reserved           | -            | -   |
| 26503 | 0x6787 | 2 | Reserved           | -            | -   |
| 26505 | 0x6789 | 2 | Reserved           | -            | -   |
| 26507 | 0x678B | 2 | Reserved           | -            | -   |
| 26509 | 0x678D | 2 | Reserved           | -            | -   |
| 26511 | 0x678F | 2 | Reserved           | -            | -   |

## Specific

### Current without CT

| Dec start address | Hex start address | Type | Size | Lock level | Locked fcts | Unlocked fcts |
|-------------------|-------------------|------|------|------------|-------------|---------------|
| 40576             | 0x9E80            | Info | 6    | NONE       | READ        | READ          |

| Dec address | Hex address | Words count | Description | Unit     | Data type |
|-------------|-------------|-------------|-------------|----------|-----------|
| 40576       | 0x9E80      | 2           | Current: I1 | A / 1000 | U32       |
| 40578       | 0x9E82      | 2           | Reserved    | -        | -         |
| 40580       | 0x9E84      | 2           | Reserved    | -        | -         |

### Energy index

| Dec start address | Hex start address | Type | Size | Lock level | Locked fcts | Unlocked fcts |
|-------------------|-------------------|------|------|------------|-------------|---------------|
| 36868             | 0x9004            | Info | 2    | NONE       | READ        | READ          |

| Dec address | Hex address | Words count | Description   | Unit | Data type |
|-------------|-------------|-------------|---------------|------|-----------|
| 36868       | 0x9004      | 2           | Active Energy | Wh   | U32       |

## Action

### Set Tariff

| Dec start address | Hex start address | Type     | Size | Lock level | Locked fcts | Unlocked fcts |
|-------------------|-------------------|----------|------|------------|-------------|---------------|
| 40480             | 0x9E20            | Commands | 2    | NONE       | WRITE       | WRITE         |



| Dec address | Hex address | Words count | Description          | Unit | Data type |
|-------------|-------------|-------------|----------------------|------|-----------|
| 40480       | 0x9E20      | 1           | Reserved             | -    | -         |
| 40481       | 0x9E21      | 1           | Tariff Number to set | -    | U8        |

### **Partial Energies Reset**

| Dec start address | Hex start address | Type     | Size | Lock level | Locked fcts | Unlocked fcts |
|-------------------|-------------------|----------|------|------------|-------------|---------------|
| 40512             | 0x9E40            | Commands | 1    | NONE       | WRITE       | WRITE         |

| Dec address | Hex address | Words count | Description                      | Unit | Data type |
|-------------|-------------|-------------|----------------------------------|------|-----------|
| 40512       | 0x9E40      | 1           | Reset<br>0x20 : Partial Energies | -    | U8_HEX    |

## **Industrialization**

### **Indus Mode and MID status**

| Dec start address | Hex start address | Type | Size | Lock level | Locked fcts | Unlocked fcts |
|-------------------|-------------------|------|------|------------|-------------|---------------|
| 40544             | 0x9E60            | Info | 2    | NONE       | READ        | READ          |

| Dec address | Hex address | Words count | Description                                                | Unit | Data type |
|-------------|-------------|-------------|------------------------------------------------------------|------|-----------|
| 40544       | 0x9E60      | 1           | Indus Mode (0: indus mode disabled, 1: indus mode enabled) | -    | U8        |
| 40545       | 0x9E61      | 1           | MID status (0: non-MID product, 1: MID product)            | -    | U8        |

### **COM Board Product ID**

| Dec start address | Hex start address | Type | Size | Lock level | Locked fcts | Unlocked fcts |
|-------------------|-------------------|------|------|------------|-------------|---------------|
| 40608             | 0x9EA0            | Info | 1    | NONE       | READ        | READ          |

| Dec address | Hex address | Words count | Description                                            | Unit | Data type |
|-------------|-------------|-------------|--------------------------------------------------------|------|-----------|
| 40608       | 0x9EA0      | 1           | Product ID :0x01: E3x/E4x COM Board0x02: E63 COM Board | -    | U8        |