SIEMENS

# CERBERUS® CerGas
# Gas warning unit CC60

## Parameter setting quick instruction, software

Fire & Security Products

Siemens Building Technologies Group

# About this document

### Purpose

This document defines the parameter settings of CC60 gas warning units in a shortened form and is a supplement to other reference documents.
Software updates and data backups are described in the second part of the document.

### Scope

The available document applies to the commissioning personnel, responsible for the commissioning and maintenance of CC60 gas warning units. For a complete commissioning additional reference documents are necessary.

### Reference documents

| | |
|---|---|
| Gas warning unit CC60 | 785 Parameter settings |
| Softwaretool SWE60 | 1369 User manual |

### Standard symbols

| | |
|---|---|
| ⧫ | Input |
| **A** | Indicate |
| **D** | Push |

### Abbreviations

| | |
|---|---|
| W | Warning |
| P | Prealarm |
| A | Alarm |
| F | Fault |
| LMS | Local monitoring system |
| CAC | Cerberus alarm concept |
| DMS | Danger management system |

### Modifications

| Version | Date | Description |
|---|---|---|
| e1989 | 04. 2000 | New, replaces documents 1434 and 1513<br>User functions user–friendly arranged<br>Software versions 3.7, 4.0 omitted<br>Technical data updated |
| e1989a | 05.2002 | new layout, Autocal. |

# 1 Parameter setting SW version 1.05

## 1.1 In general

| RESET–functions | Keys |
|---|---|
| Hardware RESET | 0 + 8 |
| RAM RESET | 0 + 2 + 5 + 8 |
| Master RESET | [I] + 2 + 6 +1 + 9 |

## 1.2 Function level F1

| | |
|---|---|
| 001 – 414 | ◗ Detector OFF / ON |
| 500 | **A** Software version |
| 510 – 551 | **A** latest 5 ”first alarm” |
| 560 | **D** latest 5 ”first alarm” |
| 640 / 650 | **A** Installation / replacement date of sensor |
| 670 / 680 | **A** Last / next calibration date |
| 720 | ◗ Printer ON / OFF |
| 990 | ◗ Lamptest ON / OFF |

## 1.3 Function level F2

| | |
|---|---|
| 001 – 414 | ◗ Detector OFF / ON |
| 500 | ◗ Relay test fault |
| 510 – 530 | ◗ Relay test W / P / A (Gr no) |
| 540 | ◗ Relay test alarm horn, SU Relay 4 |
| 550 | ◗ Relay test alarm with timer, SU Relay 3 |
| 560 | ◗ Relay test remote alarm, SU Relay 2 |
| 600 | ◗ Simulation detector fault |
| 610 – 630 | ◗ Simulation detector W / P / A |
| 640 | ◗ Switch off simulation |
| 700 | **A** Check sum EPROM program |
| 710 – 720 | **A** Check sum EPROM configuration / text |

## 1.4 Function level F3

| | | | |
|---|---|---|---|
| Date | 010 / 020 | ◗ Date / time | |
| Time | | **Weekday** | **Code** |
| Functions of time | | Monday, Tuesday, Wednesday, ... | 1, 2, 3, ... |
| | | Sunday | 0 |
| | 030 | ◗ Commissioning Date | |
| | 040 | ◗ Switchover time day / night | |
| | 045 | ◗ Expired dates activate a fault indication | |
| | 050 | ◗ Switchover winter– / summertime | |
| | 060 | ◗ Switchover summer– / wintertime | |
| | 070 / 080 | ◗ Investigation time V1 / V2 | |
| | 085 | ◗ Warning before expire V2 | |
| | 090 | ◗ Duration time external acoustic SU Relay 3 | |
| Detector datas | 100 / 110 | ◗ Detector selection select / remove | |
| (for collective programming) | 120 / 130 | ◗ Reference detector / copie datas | |
| | 140 – 450 | ◗ Optional commands available, only when activated (release in F4 880). Input after F4 | |
| Language | 900 | ◗ Selection of language | |
| Password | 910 | ◗ Disable/release VD60 display for interrogation | |
| | 920 – 940 | ◗ Password Switching–off delay 4–99 minutes | |
| | 950 – 970 | ◗ Password level 0,1 and 2 | |

# 1.5 Function level F4

**System datas**

| | | |
|---|---|---|
| 010 / 015 | ◗ Network | Computer connection / location address |
| 020 / 025 | ◗ Printer | Release / rates in baud |
| 030 / 035 | ◗ Remote control | Release / rates in baud |
| 040 / 045 | ◗ Service PC | Release / rates in baud |
| 050 – 080 | ◗ Construction control unit | |

| **LI60–02** | **Code** |
|---|---|
| non–existent | 0 |
| stub line, locally supplied | 1 |
| stub line, remote supplied | 2 |
| loop line, locally supplied | 5 |
| loop line, remote supplied | 6 |

| **Module type** | **Code** |
|---|---|
| none | 0 |
| RK60 | 1 |
| E4G020 (16 out) | 2 |
| AK60 | 5 |
| E4G040 (16 in) | 6 |
| E4G030 (12 in / 4 out) | 7 |

**Detector datas**

| | | |
|---|---|---|
| 100 | ◗ Address (link's) | physical ◗ logical |
| 130 | **A** Address (link's) | logical ◗ physical |
| 140 / 150 | ◗ Date | Commissioning / sensor exchange |

**Calibration functions**

| | | |
|---|---|---|
| 160 | ◗ Master calibration deletion | |
| 170 / 180 | **A** Date of calibration | last / next |
| 190 | ◗ Start calibration | |
| 195 | ◗ Store calibration | |
| 200 | ◗ Sensor type | |
| 205 | ◗ Sensitivity (70%) for recalibration | |
| 210 | ◗ Concentration of first calibration gas | |
| 220 | ◗ Concentration of second calibration gas | |

**Evaluation**

| | | |
|---|---|---|
| 225 | ◗ Start display | (Supression of bar indicator) |
| 230 – 240 | ◗ Display of bar indicator | Start/End/Inversion |
| 245 | ◗ Inversion of detector function | |
| 250 – 270 | ◗ Analogue output | Start/End/Adress |
| 300 – 320 | ◗ Treshold value | W / P / A |
| 350 – 380 | ◗ Programming self hold | P / W / P / A |
| 410 – 414 | ◗ Fault | Enable / Print / LMS |
| 420 – 424 | ◗ Warning | Enable / Print / LMS |
| 430 – 434 | ◗ Prealarm | Enable / Print / LMS |
| 440 – 444 | ◗ Alarm | Enable / Print / LMS |
| 450 | ◗ Detector | Enable (ON/OFF) |
| 480 | ◗ Enable functionality for F1 and F2<br>0 = F1 and F2 with password level 0 (default 7000 resp. system number)<br>1 = F1 and F2 with password level 1, (default 7100) | |
| 490 | ◗ Display supression in % of the warning level ( for all sensors at the same time active) | |

Operating functions (Groups)

500 ..... ◗ Assignment of control groups

| **Event level** [Flag] | **Code** |
|---|---|
| Warning | [1] |
| Pre–alarm | [2] |
| [1] + [2] | [3] |
| Alarm | [4] |
| [4] + [1] | [5] |
| [4] + [2] | [6] |
| [1] + [2] + [4] | [7] |

510 ..... ◗ Group dependency (2,3,..)
520 / 525 / 526 ..... ◗ Enable printing W / P / A
530 / 535 ..... ◗ Enable to LMS W / P
550 / 560 ..... ◗ Delay time ON / OFF
600 ..... ◗ Select output code
610 / 620 ..... ◗ Assignment of relay W INDICATION / INPUT
630 / 640 ..... ◗ Assignment of relay P INDICATION / INPUT
650 / 660 ..... ◗ Assignment of relay A INDICATION / INPUT
700 – 720 ..... ◗ Relay self holding W / P / A
800 ..... ◗ Groups ON / OFF
810 / 820 ..... ◗ Enable relay to LMS / Printer
850 ..... **A** Detector / Groups / Flags
860 ..... **A** Relay assignment W / P / A
870 ..... ◗ Splitting [7] in F4 500 for W / P / A

Service functions

880 ..... ◗ Enable functions F3 140 – F3 450
890 ..... ◗ Hierarchy level function F1 u. F2
900 ..... ◗ Mains filter 50 / 60 Hz
905 ..... ◗ Response time delay on mains failure
910 / 920 ..... **D** System datas / Configuration
930 ..... **D** Functional condition

Service functions

940 ..... **D** Memory

| **Event level** [Flag] | **Code** |
|---|---|
| Operating message | [1] |
| Manipulation | [2] |
| [1] + [2] | [3] |
| Fault message | [4] |
| [4] + [1] | [5] |
| [4] + [2] | [6] |
| [1] + [2] + [4] | [7] |

950 ..... **D** Calibration protocol

| **Calibration state** | **uncalibrated** |
|---|---|
| No calibration data present | 0 |
| Null gas measurement not completed | 1 |
| Trigger operation not given | 2 |
| Drop criteria not fulfilled | 3 |
| Minimum increase at first calibration not achieved | 4 |
| Insufficient sensitivity at post–calibration | 5 |
| | **calibrated** |
| Data minimum increase from master calibration | 6 |
| New calibration record | 7 |

970 ..... ◗ Repeated indicating of detector address
980 ..... **A** Detector measured values on detector line

# 2 Function comparison

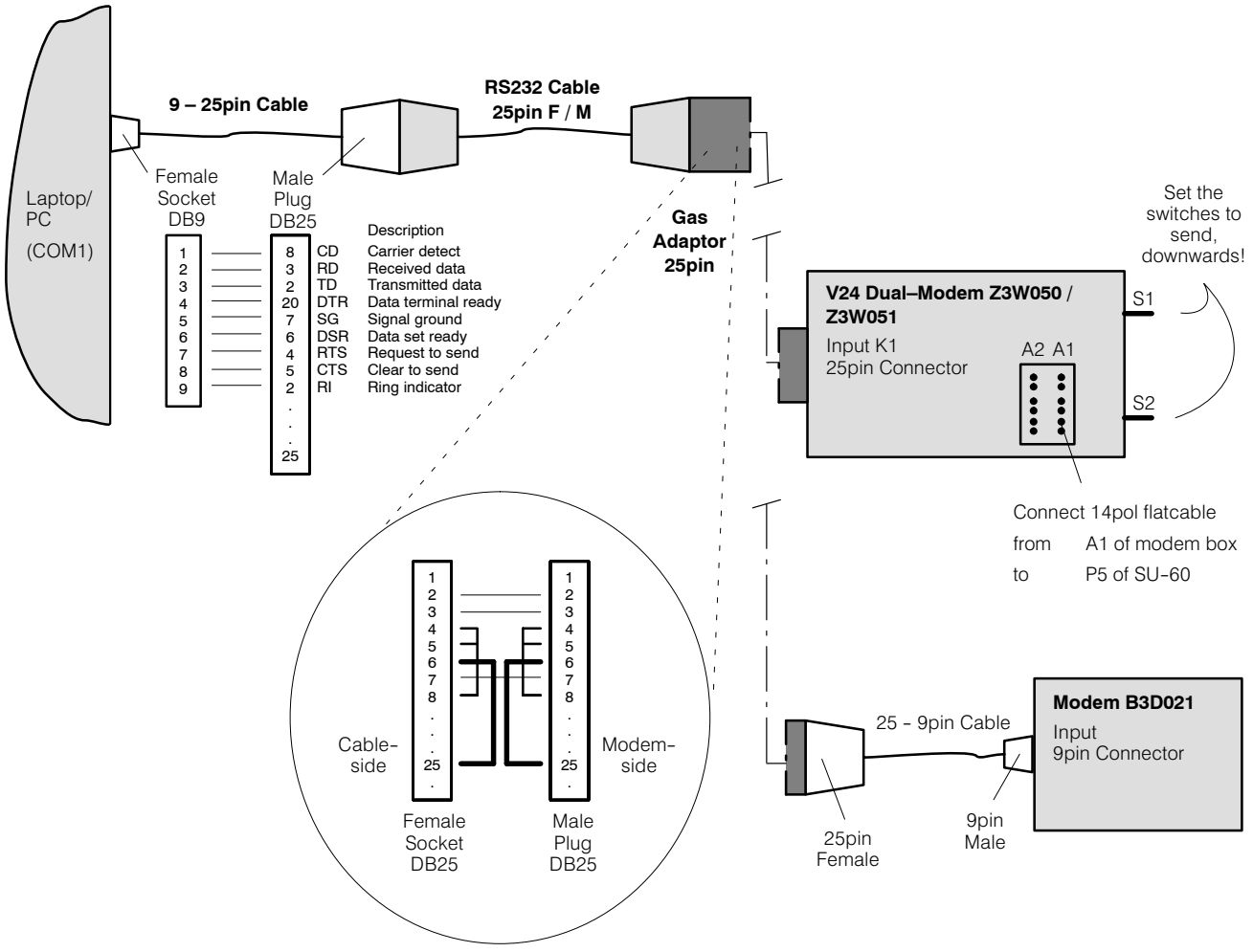
| | System datas SWE60 | Function no. CT60 |
|---|---|---|
| | Selection of language | F3 900 |
| | Mains filter | F4 900 |
| | Passwort Ebenen / Gültigkeit | F3 920 – 970 |
| | Disable/release VD60 display | F3 910 |
| | System time / Date | F3 010 / 020 |
| | Switchover time day / night | F3 040 |
| | Switchover summer / winter | F3 050 / 060 |
| | Investigation time CAC | F3 070 – 090 |
| | Delay on mains failure | F4 905 |
| | Expired dates fault indication | F3 045 |
| Hardware | Bus | F4 070 |
| | Display element | F4 050 |
| | Fire brigade operation | F4 080 |
| Interface | Service PC | F4 040 / 045 |
| | Printer | F4 020 / 025 |
| | Remote control | F4 030 / 035 |
| | Management system | F4 010 / 015 |
| Detectorline | LI 60 | F4 060 |
| Detector parameter | Assignment Detector FE | F4 100 |
| | Configuration display bar indicator | F4 230 – 240 |
| | Programming self hold | F4 350 – 380 |
| | Enable detector configuration | F4 450 |
| | – Master calibration deletion | F4 160 |
| | – Sensitivity | F4 205 |
| | – 1st commissioning (only display) | F4 140 |
| | – Next exchange | F4 150 |
| | – Last Calibration | F4 170 |
| | Inversion of alarms | F4 245 |
| | – F / W / P / A Print / DMS | F4 410 – 444 |
| | Enable Detector | F4 410 – 440 |
| | Sensor type | F4 200 |
| | Configuration analogue output | F4 250 – 270 |
| | Concentration calibration gas | F4 210 – 220 |
| | Configuration treshold value | F4 300 – 320 |
| Copie functions | Copie detector functions | F3 100 – 130 |
| Control zones | Detector assignment | F4 500 – 510 |
| | Relay assignment | F4 610 – 820 |
| | Delay time ON / OFF | F4 550 – 560 |
| | Relay self holding | F4 700 – 720 |
| | Group status, relay to LMS / Printer | F4 800 – 820 |

# 3 Software update from V3.X / V4.0 to V5.0*

| **Steps to follow:** | **Remarks:** |
|---|---|
| 1. Backup of old System | with old CC60.exe (and old software key) |
| 2. Check, if backup file has | with Norton Commander been created |
| 3. Turn CC60 unit OFF | disable communication to outside |
| 4. Change EPROM U2 and U3 | avoid electrostatic discharges |
| 5. Turn CC60 unit ON | acknowledge buzzer |
| 6. Enable operation | enter password |
| 7. Execute ”Master Reset” | press keys [I] [2] [6] [1] [9] simultaneously |
| 8. Erase display | press key [C] |
| 9. Select language | F3 900 |
| 10. F4 040 ON | configure output for PC devices to ”ON” |
| 11. F4 045 ON | program baud rates to 9600 |
| 12. Reload System data to CC60 unit | with old CC60.exe |

The CC60 unit is now configured as before, but with the new software. The unit is ”under normal operating conditions”.

## 3.1 Laptop / PC connection for program CC60.exe (V4.0)



# 4 New functions in software version 5.0* (See Document e4708)

F3 225 Suppression of the display below the selected value (absolute value)

F4 190 Activate calibration
F4 195 Storing the calibration
F4 205 Sensitivity
F4 225 Suppression of the display below the selected value (absolute value)
F4 490 Suppression of the display in % of the lowest alarm level for all sensors together
F4 950 Print calibration log

# 5 New calibration Sensors Generation 60

(See Document e4708)

F4 160, set all sensors on status calibration OFF
F4 140, check first commissioning
F4 200, check type of sensor
F4 205, check the sensitivity value
F4 210, check concentration of gas 1
F4 220, check concentration of gas 2
F4 190, activate calibration
Gasing of sensors with the calibration gas
F4 195, store the calibration
F4 905, set Mains failure response time
F4 950, print the calibration log (Calibration state has to be 7)

## 5.1 New calibration automatic Sensors Generation 61

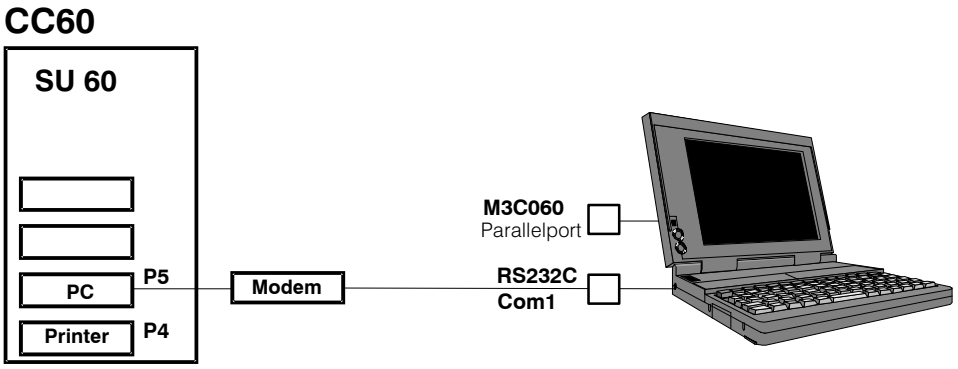
(See dokument e4708)

# 6 Data backup with SWE60

## 6.1 Required hardware

| | |
|---|---|
| • Modem box B3D 021 | 505259 |
| • 14–core ribbon cable | 316273 |
| • 9/9–core RS232 cable | 438842 |
| • Special software key M3C060 | 462075 |

## 6.2 PC connection for data backup




## 6.3 Configuration for data backup (CC60)

- Enable operation, password 7000
- F4 040 service PC ON
- F4 045 baud rate 9600

## 6.4 Backup of data (See Document e1369)

1. Save system datas on floppy disc
2. Start SWE60 tool; With software key
3. Menu ”File/New”; Create a new file
4. Menu ”File/Save”; Save new file
5. Menu ”Control unit ”; Transfer data to disk (CC—>SWE)
6. Menu ”File/Open”; Open saved data
7. Menu “File/Create List”; Choose appropriate printer output
8. Check the print out; Leave one copy at the CC60 unit

# 7 Details for ordering Software CC60

| Designation | Checksum | Remarks | Part no |
|---|---|---|---|
| EPROM U2 SE60 CCG00105–19 | F51C | System software | 507626 |
| EPROM U3 TED60 ECG00105–19 | 5348 | German / English | 507639 |
| EPROM U3 TED60 ECG10105–19 | E5ED | French / English | 507642 |
| EPROM U3 TED60 ECG10105–19 | 1D26 | Italien / English | 531977 |
| EPROM U3 TED60 ECGE0105–19 | 0AF1 | Spanish / English | 531980 |

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