GOSSEN METRAWATT

# SECUTEST PSI
# Memory, Input and Printer Module

3-348-785-03
7/8.10

- **Matrix printer**
- **Real-time clock with date function**
  battery buffered
- **Data memory** only SECUTEST.../SECULIFE ST
  Measurement values can be stored for up to 300 protocols
- **Alphanumeric keyboard**
  Test results can be annotated for the SECUTEST.../ SECULIFE ST, METRISO 5000 D-PI and PROFITEST 204 test instruments, e.g. specific data on system, DUT, customer and repair


## Applications

The PSI (Printer Storage Interface) module SECUTEST PSI is a special accessory for the test instruments of the SECUTEST.../ SECULIFE ST, PROFITEST 204 and MAVOWATT series.

It is installed in the lid of the test instrument and fastened with two knurled screws.

The test results determined with the test instruments are directly transferred to the PSI module via the RS232 interface.
The test results can be printed on site with the respective time and date in the form of clear and document-safe measuring and test protocols.

### Transmission of stored data to the PC (only SECUTEST.../SECULIFE ST)

The PSI module is equipped with an RS232 interface. The interface allows for subsequent uploading of stored data to a PC independent of the test instrument, where they can be processed with the **PS** | **3**, PC.doc-WORD™/EXCEL™, ELEKTROmanager, PROTOKOLLmanager or PATmanager software programs.

### Barcode scanner option (only SECUTEST.../SECULIFE ST)

Barcode or RFID scanner (accessory) can be linked to the RS232 connection of the PSI module. The information available in the form of barcodes or RFID tags can be safely integrated in the test protocols in an efficient and easy manner. This kind of data input enables the user to record substantial data quantities in a timesaving and cost-effective manner, e.g. for series measurements of instruments provided with barcodes or RFID tags.

### Comparison of Memory Adapters / Testers with memory option

| Features | SECUSTORE (Z745U) | SECUTEST \| SI (M702F) | SECUTEST PSI (GTM50160000R0001) | SECUTEST SIII+. . . Feature KB01 SECULIFE ST | SECUTEST S2N+ Option DBmed |
|---|---|---|---|---|---|
| Integrated printer for recording charts | — | — | • | — | — |
| Annotations via keyboard | — | • | • | — | — |
| Data memory (flash) | • | — | — | — | — |
| Data memory (battery buffered) | — | • | • | • | • |
| Protocol functions | • | • | • | — | — |
| Statistical evaluation of up to 8 instrument classes | — | • | • | — | — |
| Data transmission to PC | • | • | • | • | • |
| Connection of a barcode scanner | • | • | • | • | • |
| Connection of an RFID scanner | • | • | • | • | • |
| Storage of function test values | • | • | • | — | — |
| Storage of comments on DUT | — | • | • | — | — |

* only function when used with PROFITEST 204 und METRISO 5000 D-PI

# SECUTEST PSI
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## Applied rules and standards

| | |
|---|---|
| **IEC/EN 61 010-1:2001<br>VDE 0411-1:2002** | Safety requirements for electrical measurement, control and laboratory devices – General requirements |
| **DIN EN 60 529/<br>VDE 0470 Part 1** | Test instruments and test procedures, protection provided by enclosures (IP code) |
| **DIN EN 61326-1<br>VDE 0843-20-1** | Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements |

## Printer

| | |
|---|---|
| Print mechanism | 4-pin matrix printer |
| Printing width | 40 characters per line |
| Real-time clock with date function | battery buffered |

## Data memory (only SECUTEST.../SECULIFE ST)

| | |
|---|---|
| RAM (Data) | 100 kByte<br>up to 300 tests, depending on the scope of master data |

## Data interface

| | |
|---|---|
| Type | RS232, serial, per DIN 19241 |
| Baudrate | 9600 bauds |
| Parity | No |
| Data bits | 8 |
| Stop bit | 1 |

## Reference conditions

| | |
|---|---|
| Battery voltage | 6 V ±0.5 V |
| Auxiliary power | 9 V ±0.5 V DC or<br>8 V ±0.5 V rectified |
| Ambient temperature | +23 °C ±2 K |
| Relative humidity | 50 % ±5% |

## Ambient conditions

| | |
|---|---|
| Operating Temp. | 0 °C ... 40 °C |
| Storage Temp. | - 20 °C ...+ 60 °C; except: batteries, paper and ribbon |
| Relative Humidity | max. 75%, no condensation allowed |
| Elevation | max. 2000 m |
| Deployment | indoors |

## Auxiliary power

**Voltage supply**

| | |
|---|---|
| With connection to the test instruments | across PIN 9 of the RS232 interface<br>6.5 V ... 12 V typically 9 V |
| With battery operation | 4 each 1.5 V-mignon cells (alkaline-manganese) according to IEC LR 6 |

**Power consumption**

| | |
|---|---|
| Standby (Data buffering), | 5 µA ... 200 µA |
| Protocol printing | < 500 mA |
| Paper feed | < 200 mA |
| Data transmission to PC | < 100 mA |

## Mechanical configuration

| | |
|---|---|
| Protection type | IP20 for the case |
| Dimensions | 240 mm x 81 mm x 40 mm<br>(without knurled screws and ribbon cables) |
| Weight | approx. 0.8 kg |

## Scope of supply

1 PSI module
2 Rolls of paper (one as spare)
1 Ribbon
1 Copy of operating instructions incl. interface description

## Accessories

see order information

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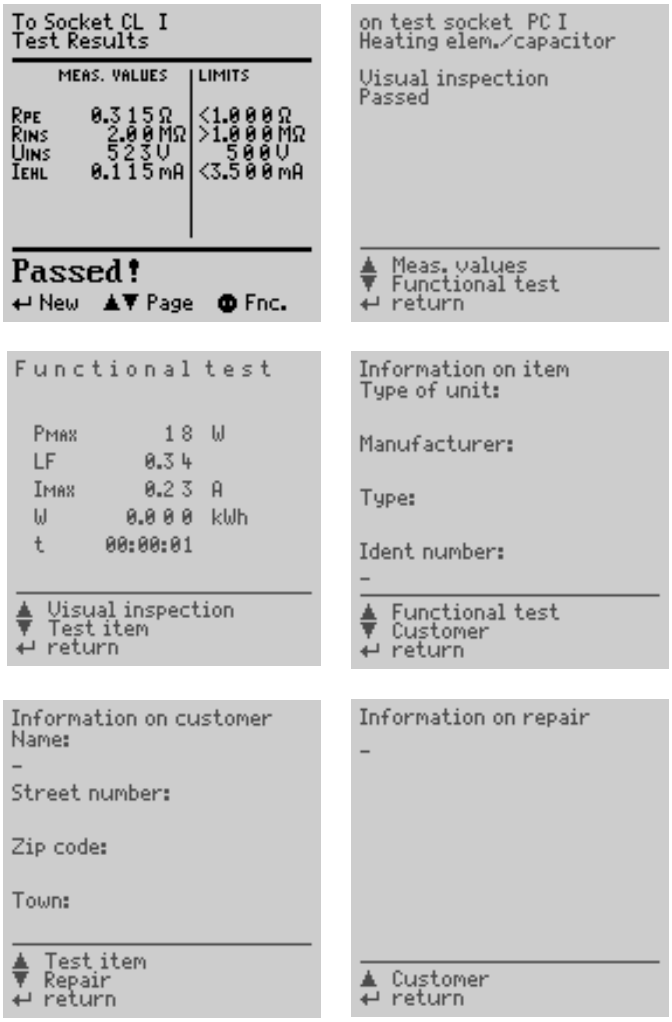
## Recording of the measured results (only SECUTEST.../SECULIFE ST)

The result of the last test at a time can be entered into the PSI module where it can be stored under an ident number and annotated. In addition, the measured results as well as further information can be shown on the LC display of the test instrument and printed out on the PSI module.

**Example of a complete test protocol**




**Example of a protocol printout of a VDE measurement**

09.07.10 12:00

Test Item: on test socket PC I

| | Meas. val. | Limits |
|---|---|---|
| $R_{SL}$ | 0.167 Ω | < 0.300 Ω |
| $R_{ISO}$ | > 310.0 MΩ | > 1.000 MΩ |
| $U_{ISO}$ | 0543 V | > 0500 V |
| $I_{EA}$ | 00.14 mA | < 03.50 mA |
| ΔI | 00.22 mA | < 03.50 mA |

VDE measurements passed
Functional test passed
Visual inspection passed

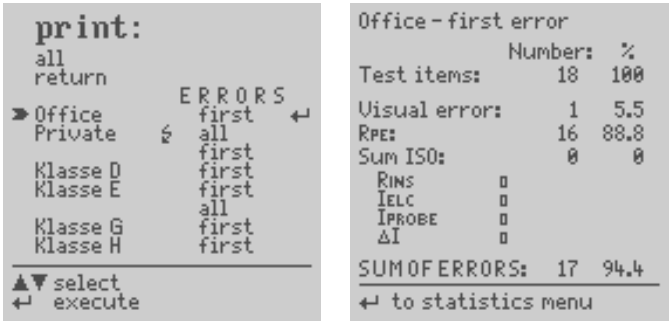
Functional test

| | | |
|---|---|---|
| Pmax | 20 | W |
| LF | 0.55 | |
| Imax | 0.16 | A |
| W | 0.000 | kWh |
| t | 00:00:50 | |

## Statistical evaluation of the measured results (only SECUTEST.../SECULIFE ST)

All together, statistical data of a maximum of eight instrument classes can be recorded.
The statistical data includes the number of the errors occurred as well as their percentage of the total measurement within one class.
After recording, this data can be shown on the LC display of the SECUTEST.../SECULIFE ST and printed out on the SECUTEST PSI.

**Example of statistical results on display and printout**




09.07.10 12:00

< Top lines 1 to 5 settable via PSI >

TEST STATISTICS:

Test period:
01.07.10 11:11 - 08.07.10 14:21

Class B / first error

| | | Number | % |
|---|---|---|---|
| Devices under Test: | | 119 | 100 |
| Visual error: | | 5 | 4.2 |
| Rsl: | | 17 | 14.2 |
| Total ISO: | | 0 | 0 |
| Riso | 0 | | |
| Iea | 0 | | |
| Isonde | 0 | | |
| ΔI | 0 | | |
| ERROR TOTAL: | | 22 | 18.4 |

< Bottom lines 1 - 5 via PSI, 6 - 7 via PC >

## PC evaluation software

**Report and List Generation and/or Test Data Management**

The following software packages are optionally available for readout, documentation and further processing of stored data:

- PC.doc-WORD™/EXCEL™
- PROTOKOLLmanager
- ELEKTROmanager
- PS3
- PATmanager

An overview of the performance features provided by the software is given in a separate data sheet.

# SECUTEST PSI
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## Order Information

| Designation | Type | Article number |
|---|---|---|
| PSI module with the languages D (German), GB (English), F (French), NL (Dutch), I (Italian), E (Spanish) and CZ (Czech), including 2 rolls of paper, 1 ribbon cassette, batteries and operating instructions | SECUTEST PSI | GTM5016000R0001 |
| **Accessories** | | |
| Set with 10 rolls of paper for SECUTEST PSI (1 roll approx. 6.7 m) | PS-10P | GTZ3229000R0001 |
| Set with 10 ribbon cassettes for SECUTEST PSI | Z3210 | GTZ3210000R0001 |
| **Accessories** | | |
| Barcode scanner, printer and RFID scanner see separate datasheet ID systems | | |
| **PC Analysis Software** | | |
| For further information on software, please refer to our website<br><br>http://www.gossenmetrawatt.com<br>(→ Products → Electrical Testing → Testing of Electr. Appliances → SECUTEST ...)<br><br>*or*<br><br>http://www.gossenmetrawatt.com<br>(→ Products → Software → Software for Testers) | | |

For additional information on accessories, please refer to:

- our Measuring Instruments and Testers catalogue
- our website www.gossenmetrawatt.com

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GOSSEN METRAWATT

GMC-I Messtechnik GmbH
Südwestpark 15
90449 Nürnberg • Germany

Phone +49 911 8602-111
Fax +49 911 8602-777
E-Mail info@gossenmetrawatt.com
www.gossenmetrawatt.com