

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 S1 (M702F)	SECUTEST PSI (GTM5016000R0001)	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

Memory, Input and Printer Module

Applied rules and standards

IEC/EN 61 010-1:2001 VDE 0411-1:2002	Safety requirements for electrical measurement, control and laboratory devices – General requirements
DIN EN 60 529/ VDE 0470 Part 1	Test instruments and test procedures, protection provided by enclosures (IP code)
DIN EN 61 326-1 VDE 0843-20-1	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements

Auxiliary power

Voltage supply

With connection to the test instruments

across PIN 9 of the RS232 interface

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

Printer

Print mechanism Printing width 4-pin matrix printer40 characters per line

Real-time clock

with date function battery buffered

Power consumption

Standby

(Data buffering), $5 \mu A \dots 200 \mu A$ Protocol printing < 500 mAPaper feed < 200 mA

Data transmission

to PC

< 100 mA

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

RAM (Data) 100 kByte

up to 300 tests, depending on the scope of master data

Mechanical configuration

Protection type IF Dimensions 2

IP20 for the case

240 mm x 81 mm x 40 mm

(without knurled screws and ribbon cables)

Weight approx. 0.8 kg

Data interface

Type RS232, serial, per DIN 19241

Baudrate 9600 bauds

Parity No Data bits 8 Stop bit 1

Scope of supply

1 PSI module

2 Rolls of paper (one as spare)

1 Ribbon

1 Copy of operating instructions incl. interface description

Reference conditions

Battery voltage Auxiliary power 6 V ±0.5 V

 $9 V \pm 0.5 V DC$ or $8 V \pm 0.5 V$ rectified

Ambient

temperature +23 °C ± 2 K Relative humidity 50 % ± 5 %

Accessories

see order information

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
Deployment

max. 2000 m indoors

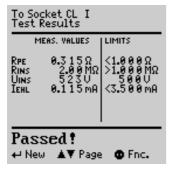
SECUTEST PSI

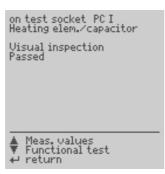
Memory, Input and Printer Module

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

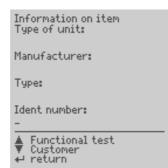
The result of the last test at a time can be entered into the PSI module where it can be stored under an ident number and annotated. In addition, the measured results as well as further information can be shown on the LC display of the test instrument and printed out on the PSI module.

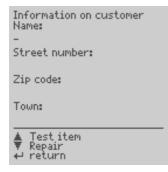
Example of a complete test protocol













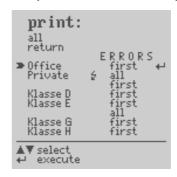
Statistical evaluation of the measured results (only SECUTEST.../SECULIFE ST)

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



Office-first	erro	r	
	Num	ber:	%
Test items:		18	100
Visual error:		1	5.5
RPE:		16	88.8
Sum ISO:		0	9
	0		
	0 0		
	u 0		
SUMOFERROR	RS:	17	94.4
← to statist	ics m	enu	

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: Rsl: Total ISO: Riso 0 lea 0 lsonde 0 ΔI 0	5 17 0	4.2 14.2 0
ERROR TOTAL:	22	18.4
< Bottom lines 1 - 5 via	ı PSI, 6 - 7 vi	a PC >

Example of a protocol printout of a VDE measurement

•	ooo. ptot	at 0. a 151	inioacai ciniont
	09.07.10		12:00
	Test Item:	on test sock	et PC I
	R _{SL} R _{ISO} U _{ISO} I _{EA} ΔI	0543 V 00.14 mA	< 0.300 Ω > 1.000 MΩ
	Imax 0	st passed tion passed I test 20 W 0.55 0.16 A 000 kWh	d

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.

GMC-I Messtechnik GmbH

SECUTEST PSI Memory, Input and Printer Module

Order Information

Designation	Туре	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 http://www.gossenmetrawatt.com (→ Products → Electrical Testing → Testing of Electr. Appliances → SECUTEST)					
or					
http://www.gossenmetrawatt.com (→ Products → Software → Software for Testers)					

For additional information on accessories, please refer to:

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

Edited in Germany • Subject to change without notice • A pdf version is available on the Internet

