SECUTEST®PSI
Printer Module

3-348-785-03
6/12.00

- Matrix printer
- Real-time clock with date function
  battery buffered
- Data memory only SECUTEST®...
  Measurement values can be stored
  for up to 1,000 protocols
- Alphanumeric keyboard
  Test results can be annotated for the SECUTEST®... 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®..., 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®...)

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 PS3 or PC.doc-win software programs.

Barcode scanner option (only SECUTEST®...)

The barcode scanner B3261 (accessory) can be linked to the RS232 connection of the PSI module. The information available in the form of barcodes 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.

Functions offered in combination with various test instruments

Features	SECUTEST®0751/601S (P)	SECUTEST®0700/0701S DC	SECUTEST®0701/0702S (II)	SECUTEST®SIII	PROFITEST 204	MAVOWATT 45
Printout of test results	•	•	•	•	•	•
Hardcopy of the matrix display of the test instrument	•	•	•	•		•
Annotations via keyboard	•	•	•	•	•	
Input of top lines and bottom lines via keyboard	•	•	•	•		
Data memory (battery-powered)	•	•	•	•		
Protocol functions	•	•	•	•		
Statistical evaluation of up to 8 instrument classes	•	•	•	•		
Data transmission to PC	•	•	•	•		
Connection of a barcode scanner	•	•	•	•		

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Applied rules and standards

IEC 61010-1/EN 61010-1/ VDE 0411-1	Safety requirements for electrical equipment for measurement, control and laboratory use
EN 60529 VDE 0470 Part 1	Test instruments and test procedures, protection provided by enclosures (IP code)
IEC 61326/EN 61326	Electromagnetic compatibility (EMC)

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®...)

RAM (Data)	100 kByte up to 1,000 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 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 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 (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

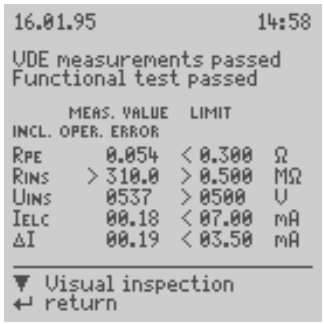
Accessories

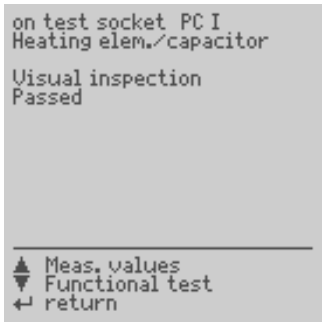
see order information

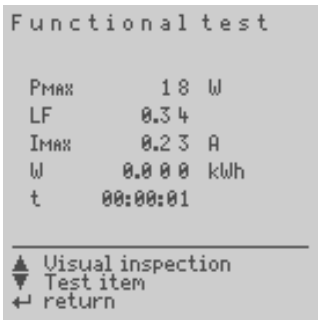
Recording of the measured results (only SECUTEST®...)

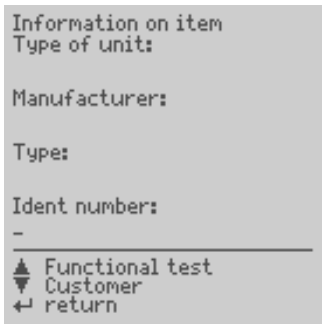
The result of the last test at a time can be entered into the PSI module where it can be stored under an ident number and annotated. In addition, the measured results as well as further information can be shown on the LC display of the test instrument and printed out on the PSI module.

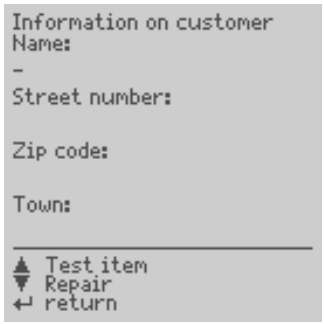
Example of a complete test protocol (SECUTEST 0701/0702S)











Example of a protocol printout of a VDE measurement

21.02.96 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	> 0.500 MΩ
U_{ISO}	0543 V	> 0500 V
I_{EA}	00.14 mA	< 07.00 mA
ΔI	00.22 mA	< 03.50 mA

VDE measurements passed
Functional test passed
Visual inspection passed

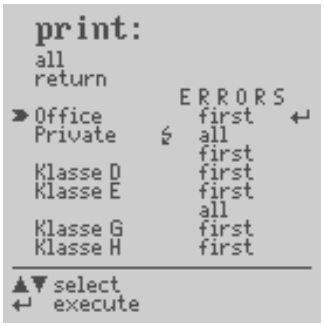
Functional test

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®...)

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®0701/0702S and printed out on the SECUTEST®PSI.

Example of statistical results on display and printout (SECUTEST 0701/0702S)



01.03.95 12:00SECUTEST

< Top lines 1 to 5 settable via PSI >

TEST STATISTICS:

Test period:
01.01.95 11:11 - 21.01.95 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 >

SECUTEST®PSI
Printer Module

PC evaluation software

PS3 Intelligent Modular Software for Test Instruments

Measurement data acquired with test instruments is transferred to PS3 and are then automatically assigned to activities such as testing, maintenance or inspection. Ready-to-sign test and work reports can thus be prepared with a minimum of time and effort.

The basic module and the device module are sufficient for standard requirements such as reading in measurement data and report printing.

Additional requirements such as following up on deadlines, test data history, data selection and list generation, right on up to complete object management (devices and buildings) with inventory management, errors indication, work orders and repairs are handled with the expansion module and with add-on modules.

An overview of all of the features included with this software is available in the PS3 brochure.

PC.doc-win Standard Software

(Windword 6.0 and/or ACCESS required in both cases)

Report and database software based on MICROSOFT WINWORD and ACCESS for all SECUTEST® series test instruments

Measurement results, as well as data entered to the PSI module, are entered to reports and device lists in accordance with the respective regulations in WINWORD.

Complete device and system management is made possible with the help of ACCESS, as well as documentation and management of master data and test data.

- Standard forms and device lists
- Automatic initialization of WINWORD and ACCESS
- Automatic follow-up on deadlines
- Automatic preparation of deadline lists and deficiency lists for periodic testing
- Management of master data for customers, work orders and devices
- Automatic allocation to the selected master data
- Search function
- Read-in PC.doc files (predecessor software in DOS)

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	GTM 5016 000 R0001
Accessories		
Set with 10 rolls of paper for SECUTEST®PSI (1 roll approx. 6.7 m)	PS-10P	GTZ 3229 000 R0001
Set with 10 ribbon cassettes for SECUTEST®PSI	Z3210	GTZ 3210 000 R0001
Barcode scanner	B3261	GTZ 3261 000 R0001
Barcode and label printer including software	Z721B	Z721B
Set of labels for printer Z721B	Z722B	Z722B
PC Software		
PS3 intelligent modular software for test instruments		
SECUTEST device module	Z530C	Z530C
Profitest 204 device module	Z530D	Z530D
Basic module	Z531A	Z531A
Expansion module [1]	Z531B	Z531B
Add-on modules [2]		
– LHNavigator + LHViewer	Z531C	Z531C
– Client compatibility	Z531D	Z531D
– Inventory management	Z531E	Z531E
– Outdoor mode	Z531F	Z531F
– Remote module for SECUTEST	Z531G	Z531G
– Error indicator module	Z531H	Z531H
– Barcode module	Z531J	Z531J
– Repair management	Z531K	Z531K
– Network	upon request	upon request
Software for the generation of test protocols (Windows software on floppy disk including interface cable for RS232)	PC.doc-win	Z710F

[1] Requirement: device module and basic module
[2] Requirement: device module and basic module and add-on module

Please refer to our Measuring Instruments and Testers catalog for additional information concerning accessories.

Printed in Germany • Subject to change without notice

GOSSEN-METRAWATT GMBH
Thomas-Mann-Str. 16-20
90471 Nürnberg, Germany
Phone +49 911 8602-0
Fax +49 911 8602-669
e-mail: info@gmc-instruments.com
http://www.gmc-instruments.com