

SECUTEST | SI+ Memory and Input Module

3-349-612-03

- Real-time clock with date function battery buffered
- Data memory (only SECUTEST .../SECULIFE ST)
 Measurement values can be stored for up to 500 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

Data interfaces
 for tester: RS232
 for PC: RS232 and USB



Applications

The SI (Storage Interface) module **SECUTEST SI** is a special accessory for the test instruments of the SECUTEST .../SECULIFE ST, PROFITEST 204 and METRISO 5000 D-PI 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 SI module via the RS232 interface.

The test results can be saved 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 SI module is equipped with an RS232 and an USB interface. While being connected to the test instrument, the interfaces allow for subsequent uploading of stored data to a PC – where they can be archived with our software packages.

Barcode or RFID scanner option (only SECUTEST .../SECULIFE ST)

Barcode or RFID scanner (accessory) can be linked to the RS232 connection of the SI 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 time-saving 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 SI+ (M702G)	SECUTEST PSI (GTM5016000R0001)	SECULIFE ST 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	•	•	•	•	I —	
Statistical evaluation of up to 8 instrument classes		•	•	•	I —	
Data transmission to PC via RS232-Interface	•	•	•	•	•	•
Data transmission to PC via USB-Interface	_	_	•	_	_	_
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 | SI+

Memory and Input Module

Applicable Regulations 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

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

RAM (Data) 100 kByte

up to 500 tests, depending on the scope of master data

Real-time clock

with date function buffered by a permanently installed

lithium battery

RS232 Data Interface

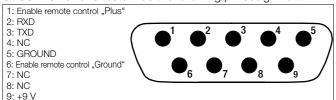
Type RS232, serial, per DIN 19241

Operating voltage 6.5 V ... 12 V for connection to test instrument

Current consumption 40 mA typical Baud rate 9600 bauds

Parity No
Data bits 8
Stop bit 1

The 9-pin D-SUB **connector** for connection of the SI module to the SECUTEST 0701S tester has the following pin assignment:

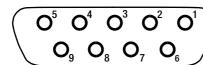


The 9-pin D-SUB **connection socket** for connection to PC, barcode reader, etc., has the following pin assignment:

1: NC 2: TXD

3: RXD 4: Switching input 5: GROUND

6: +5 V 7: CTS 8: RTS 9: NC



USB Data Interface

Type USB 1.1

Operating voltage 5 V DC $\pm 10\%$ from the RS232 interface of

the test instrument

Current consumption 40 mA typical Baud rate 9600 bauds Parity none Data bits 8 Stop bit 1

Terminal assignment Type B 4 pin, 1: VCC, 2: D-, 3: D+, 4: GN

Reference Conditions

Operating voltage for connection

to test instrument 9 V ±0.5 V DC or

8 V ±0.5 V rectified

Ambient

temperature +23 °C ± 2 K Relative humidity $40 \dots 60\%$

Ambient Conditions

Operating temperature 0 °C ... 40 °C

Storage temperature - 20 °C ...+ 60 °C; except batteries Relative humidity max. 75%, no condensation allowed

Elevation max. 2000 m Deployment indoors

Electromagnetic Compatibility (EMC)

Interference emission EN 61326-1:2013 class B Interference immunity EN 61326-1:2013

Auxiliary power

Voltage Supply

for connection to

the test instruments via pin 9 of the RS232 interface

6.5 V ... 12 V, typically 9 V

Mechanical Configuration

Protection IP20 for the housing
Dimensions 240 mm x 81 mm x 40 mm

(without knurled screws and ribbon cables)

Weight approx. 0.4 kg

Scope of Supply

1 SI module

Operating instructions

The RS232 interface description is available on our website www.gossenmetrawatt.com.

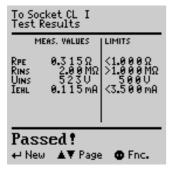
Accessories

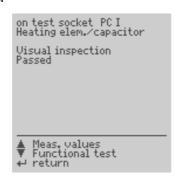
see order information

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

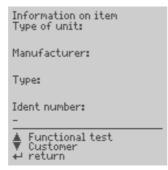
The result of the last test at a time can be entered into the SI module where it can be stored under an ident number and annotated. In addition, the measured results as well as further information can be shown on the LC display of the test instrument.

Example of a complete test protocol













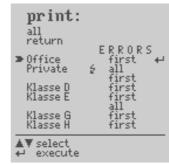
Statistical evaluation of the measured results (only SECUTEST .../SECULIFE ST)

Altogether, 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 .

Example of statistical results on display



r				
er:	%			
18	100			
1	5.5			
16	88.8			
0	9			
17	94.4			
← to statistics menu				
	per: 18 1 16 0			

PC Report Generating Software

Free of Charge Starter Programs

An overview of the up-to-date report generating software with and without database for testers (free starter programs and demo software for data management, report and list generation) is provided on our website. These programs can be downloaded either directly or after registration.

http://www.gossenmetrawatt.com

→ Product → Software → Software for Testers

GMC-I Messtechnik GmbH

SECUTEST | SI+ Memory and Input Module

Order Information

Designation	Туре	Article number					
SI module with the languages D (German), GB (English), F (French), NL (Dutch), I (Italian), E (Spanish) and CZ (Czech), including operating	OFGUITEGT OF	M7000					
instructions in German/English	SECUTEST SI+	M702G					
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