

# 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. The interface allows for subsequent uploading of stored data to a PC independent of the test instrument, where they can be processed with the ETC, **PS3**, PC.doc-WORD/EXCEL, PC.doc-ACCESS, ELEKTROmanager, PROTOKOLLmanager oder PATmanager software programs.

## 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 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 SI+ (M702G)	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 via RS232-Interface	•	•	•	•	•	•
Data transmission to PC via USB-Interface	1-	_	•	_	l –	
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 61326-1 VDE 0843-20-1	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements

## **Reference Conditions**

Operating voltage for connection

to test instrument  $9 \text{ V} \pm 0.5 \text{ V} DC$  or

 $8 V \pm 0.5 V$  rectified

Ambient

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

## 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 buffere

buffered by a permanently installed

lithium battery

## **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

## **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

## **Electromagnetic Compatibility (EMC)**

Interference emission EN 61326-1:2006 class B Interference immunity EN 61326-1:2006

## **USB Data Interface**

Type USB 1.1

Operating voltage when connected to the test instrument:

5 V DC ±10% from the RS232 interface of

the test instrument when connected to a PC:

(without connection to the test instrument):  $5 \text{ V DC} \pm 10\%$  from the USB interface of the

PC

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

## 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

1 Operating instructions

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

## **Accessories**

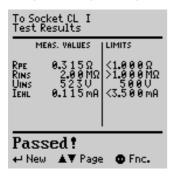
see order information

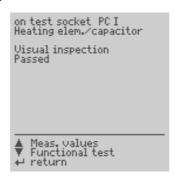
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# Recording of the measured results (only SECUTEST .../SECULIFE ST)

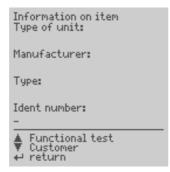
The result of the last test at a time can be entered into the SI module where it can be stored under an ident number and annotated. In addition, the measured results as well as further information can be shown on the LC display of the test instrument.

### 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



Office-first	error	
	Number	3 %
Test items:	18	100
Visual error:	1	5.5
RPES	16	88.8
Sum ISO:	9	
	0	
	0	
		OL I
SUMOFERROR	RS: 17	94.4
← to statist	ics men	u

## 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:

- ETC
- PC.doc-WORD/EXCEL
- PC.doc-ACCESS
- 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 | 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 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						
$\begin{array}{l} \text{http://www.gossenmetrawatt.com} \\ (\to \ \text{Products} \to \ \text{Electrical Testing} \to \ \text{Testing of Electr. Appliances} \to \ \text{SECUTEST)} \end{array}$						
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