

## 8. Memory-Card

The SCR 35xx is equipped with a memory card for non-volatile data storage of instrument settings, calibration data and measurement results, and for data exchange with PCs.

### Technical data of memory card:

Standard: PCMCIA  
Card type: SRAM with back-up battery, no attribute memory, 5 V, 68-pole  
File format: PCMCIA interchangeable format  
Capacity: 1 MB to 4 MB

### Replacement of memory card:

It is essential to have the instrument switched off before replacing the memory card, for example for purposes of data exchange. Replacement during operation (hot insertion) is not supported, and the result may be that unintended data loss arises. For purposes of replacement, start by undoing the memory card cover on the right-hand side of the front of the instrument, this cover is fastened by two knurled screws. Press in the ejector above the memory card which will eject it far enough out of the slot for it to be conveniently removable.

Before inserting a different card, it should be set such that its write-over protection is not active, and the setting is stated in the description that accompanies the memory card.

The memory card must be inserted into the slot along the direction of the arrow printed on it, and the title side together with the arrow should be pointing to the left. The card must be inserted until the ejector comes out a little way and a marked resistance can be felt. If the card is inserted the wrong way round, it cannot be inserted all the way in. In order to prevent interference radiation, the cover should be refastened before the instrument is switched on.

If the card from another SCR 35xx is intentionally or inadvertently used on replacement of the memory card, then the error message 'PC Card mismatch, Change or Calibrate' error message will appear. The memory card can then either be replaced or the user performs brief calibration in which the serial number is updated on the card.

If the memory card of a different SCR 35xx is utilised, it may arise that the stored value for LCD contrast setting is so unfavourable that nothing can be initially seen on the display. In such a case, contrast must be modified as per 7.1.7.

### Battery replacement:

The service life of the back-up battery is greatly dependent on the storage capacity of the memory card. As guideline values, the following periods can be assumed as the approximate service life value:

1 MB	2.0 years
2 MB	1.1 years

The status of the battery inside the memory card is checked after each switching on of the SCR 35xx. The following failure messages are possible:

'Change PC card battery (data still ok)' - The battery should be changed soon, no data missing up to now.

'Change PC card battery and update data' - Change battery immediately. Because data loss is possible, the memory card is to re-write from an external PC or LapTop.

In order to guarantee maintaining the data, the memory card remains switched on replacement of the battery. The start menu of the SCR 35xx should be activated for purposes of battery replacement. After removing the cover, the battery can then be changed in accordance with the description supplied together with the memory card.

### Memory card contents:

In the MS-DOS operating system, the memory card can be activated in the same way as a diskette and contains a comparable data file structure.

On delivery, the card contains the following data files:

Root directory:

a .bat	Batch data file for receiver program start
serialno.xyz	Serial number (xyz = instrument serial number)
SCR 35xx.ini	Initialisation data
clsgrmem.exe	Utility program for display adjustment

SYSTEM directory:

frtab_.dat	Frequency table
gkalxx.dat	Data for last total calibration
kka1xx.dat	Data for last brief calibration
kalc31xx.dat	Help data file for calibration
menu.doc	Configuration of the Start-Menu (Backup copy)
mvtab_.rtb	Measurement values of last table sweep
spec_.rsw	Measurement values of last linear sweep
scan_.rsc	Measurement values of last scan
state_.dat	Data for last receiver settings and 10 stored settings
SCR 35xxgr .hlc	German help text
or	
SCR 35xxuk .hlc	English help text

USERDATA directory:

Further data files with measurement values or status information's during operation of the SCR 35xx can be stored in the USERDATA directories:

*.sta	receiver status ( <b>ST</b> Ate)
*.frt	<b>F</b> requency Table
*.lim	limit line pair ( <b>LIM</b> it line)
*.cor	Correction factor file ( <b>COR</b> rection factor)
*.cst	Correction factor Set ( <b>COR</b> rection factor <b>SeT</b> )
*.rsc	Scan measuring results ( <b>R</b> esult <b>SC</b> an)
*.rsw	linear sweep measuring result ( <b>R</b> esult <b>SW</b> EEP)
*.rst	table sweep result ( <b>R</b> esult <b>SW</b> EEP <b>T</b> able)
*.plt	graphic display of a sweep or scan in HPGL format ( <b>PL</b> oT)
*.bmp	Screen Hardcopy in Windows Bitmap Format ( <b>BitMaP</b> )
*.doc	menu.doc or ASCII file with report information's of the scan

The user of the SCR 35xx can read in data files from the USERDATA directory by means of a PC or laptop with a PCMCIA interface and reprocess the measurement values accordingly. Appendix A contains an extensive description of how to work with data files in the USERDATA directory.

Data files outside of the USERDATA directories should not be altered by users. The only exception is the help text language version. By changing the corresponding data file in the SYSTEM directory, the language version can be changed. For this purpose, the desired data file should be copied from the disk supplied on to the memory card and the old help data file erased from the memory card.

Free space on the Memory-Card is shown in the lower right part of the display with the state information's. Storage of files will be denied, if there is not enough space available.

### **Reading and Deletion of memory Card Data Files:**

Using "UTIL" / "Files" the contents of the memory card can be read. "F-Type" allows presentation of all files or selection of file groups following their extensions. For each file the name, size in byte and generation date and time will be shown. The last line shows the still available free memory on the memory card. No longer needed files can be overwritten or deleted using "UTIL" / "Files" / "Delete" commands.

(see Section 7.6.2 "reading and deletion of data files")

### **Formatting of the memory card:**

So as to enable operation of memory cards in MS-DOS in the same way as a normal diskette, these storage media also have to be formatted before first utilisation. The SRAM cards provided for the SCR 35xx must be formatted in quasi-floppy format, i.e., without CIS (card information structure). An external memory card read/write unit to be operated via the parallel port, and which supports this format, can be obtained as an optional accessory.