

DPR180/DPR250 PCMCIA OPTION MANUAL

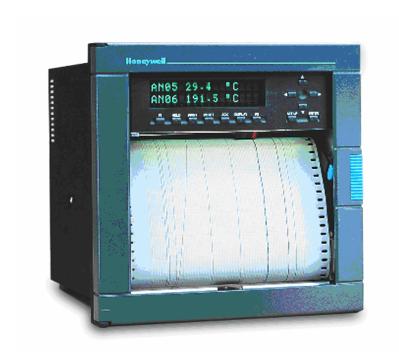


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1. OVERVIEW

Before running your PCMCIA option, please read the following explanations on how to install it.

1.1 Warning

➤ If you received your optional PCMCIA board as a spare part:

You are going to install your optional PCMCIA board.

To run properly, this application needs recorder firmware release 001AK or higher.

To determine the version of your recorder firmware, refer to your product manual (sub-section 3-2) or read it on the recorder in SERVICE / MISCELLANEOUS, SOFTWARE.

If your recorder firmware release is lower than 001AK (or if you wish to upgrade it), follow the procedure given in the **PC Configurator Kit Notice (CK 214)**:

1. Install the PC configurator software (included in this kit) on your PC.

The minimum PC configuration required is a 486 with 4 Mb of RAM and 10 Mb free on your hard disk.

The software is compatible with Windows 3.1, Windows 3.11 and Windows 95.

- 2. Install the new recorder firmware (included in this kit) on your PC.
- **3.** Connect the PC Recorder interface (Kit # 46190409-501 **not included**).
- 4. Upgrade the recorder firmware.
- Install the optional PCMCIA board as described in this manual (refer to Section 2; sub-section 2.1)
- **6.** Configure the PCMCIA option board as described in section 3 of the manual.

➤ If you received your optional PCMCIA board with your recorder:

The PCMCIA board is already installed.

However, you have to configure the PCMCIA option as described in Section 3 of this manual.

➤ Note that you can only upgrade the recorder firmware from the front panel of the recorder (with a jack cable) using the PC Configurator Kit.

1.2 Main functions

- Selectable start conditions of archiving
- Rollover recording capability to keep the more recent informations
- Recorded informations selectable among: trends, alarms, digital events and internal diagnostics with configurable file names
- Recorded trends may be analog inputs, math results (if Maths option present) or communication PV's
- Ten selectable trends login frequencies from 1 second up to 30 minutes
- Check of the PCMCIA memory card (can be done before storing process data)
- PCMCIA event selectable on a configurable filling level
- Displaying PCMCIA card status (with specific led)
- Activating relay or displaying message on "PCMCIA" event
- PCMCIA memory cards used are ATA type II compatible and are made with the flash technology
- Internal buffer (128 Kb) to store the data during the change of the PCMCIA memory card.

2. INSTALLATION

2.1 Installing the PCMCIA option board

- → **WARNING**: Please use an antistatic ground strap to avoid possible electrostatic damage to the printed circuit boards.
- 1. Turn off the power to isolate the recorder from the main supply.
- 2. Open the recorder door and remove the chart cassette from the chassis.
- 3. Turn OFF the switch. (See Figure 2-1)

Recorder's main power switch located behind the chart cassette

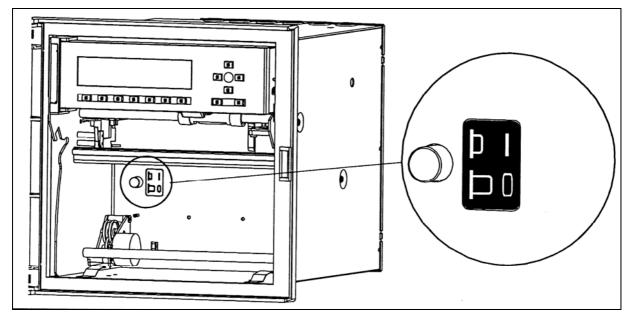


Figure 2-1

- 4. Remove the cover from the power supply terminal block. (See ref. E, Figure 2-15)
- 5. Disconnect the main supply from the power supply terminal block.
- 6. Unscrew the 3 fixing screws from the rear cover. (See ref. A, Figure 2-2)
- 7. Remove the rear cover. (See ref. B & C, Figure 2-2)

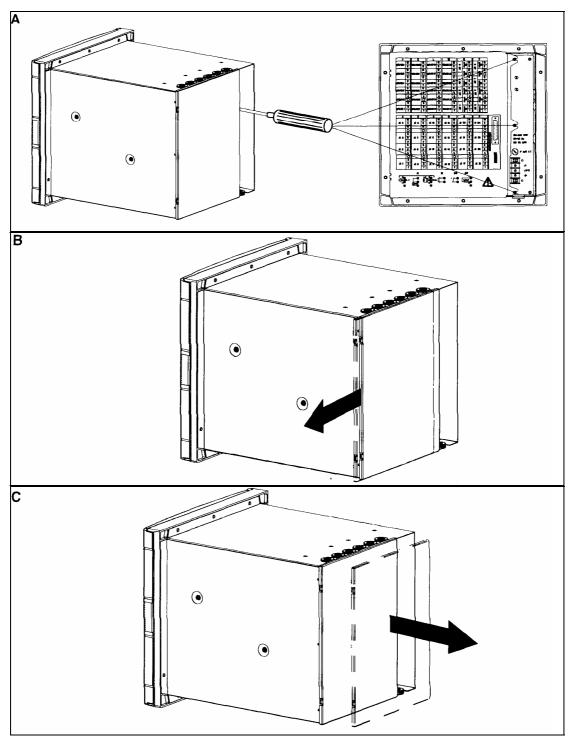


Figure 2-2

8. Remove all the terminal blocks. (See Figure 2-3)

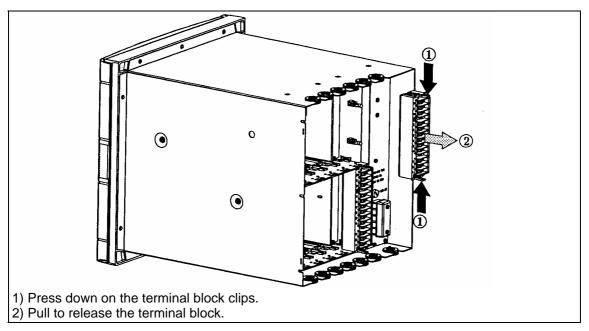


Figure 2-3

- 9. Remove all the grommets. (See ref. A, Figure 2-4)
- 10. Unscrew the 4 fixing screws (M4) and remove from the chassis with the Torx key T20. (See ref. B, Figure 2-4)

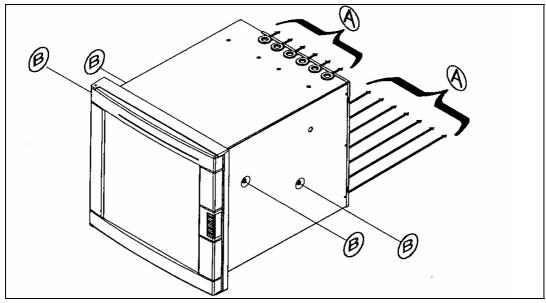


Figure 2-4

11. Slide the recorder chassis out of the case. (See Figure 2-5).

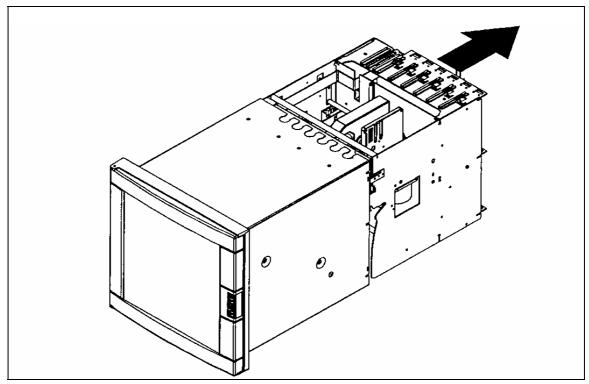


Figure 2-5

- 12. Unscrew the 2 fixing screws from the power supply.
- 13. Remove the power supply by removing 5 screws; two at the top, one in the middle and two at the bottom. (See Figure 2-6)

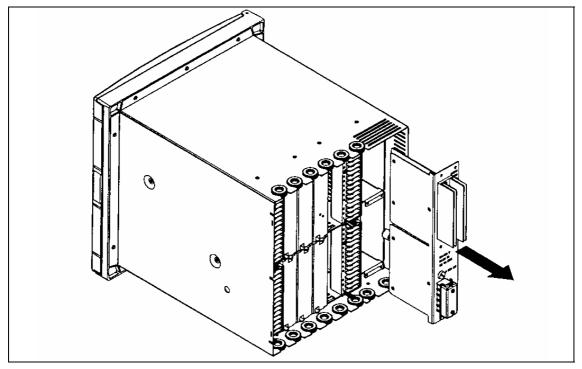


Figure 2-6

- 14. Remove the slot covers in the right hand side location, and the Communications card if installed.
- 15. Remove the cover which protects the CPU board. Unscrew the 3 fixing screws. (See Figure 2-7).

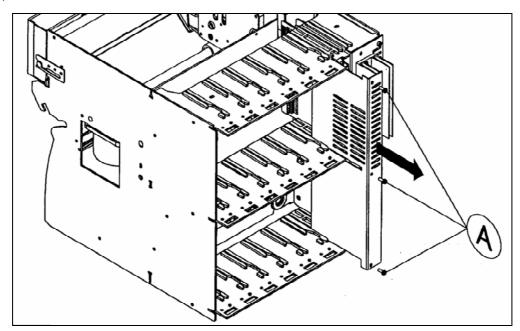
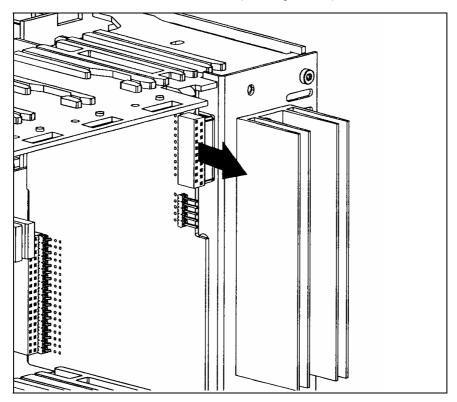


Figure 2-7

- 16. Ensure your antistatic ground strap is connected to earth before proceeding to avoid possible electrostatic damage to the CPU board or PCMCIA board.
- 17. Disconnect the flat cable from the CPU board. (See Figure 2-8)



- 18. Remove the MMI flat cable plastic protection.
- 19. Remove the 3 flat cable clips. (See ref. A, Figure 2-9)
- 20. Remove the ink ribbon carriage stop (see ref. B standoff, Figure 2-9). Unscrew the fixing screw.
- 21. Remove the reinforcing bar (see ref. C, Figure 2-9) by unscrewing the 2 screws.

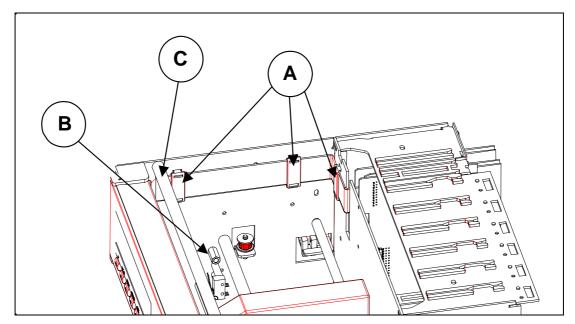


Figure 2-9

22. Unscrew the 3 fixing screws from the PCMCIA sub-assembly. (See Figure 2-10).

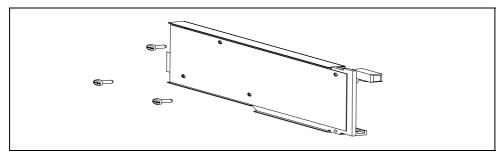


Figure 2-10

- 23. Remove the MMI with 2 screws (see B in Figure 2-11)
- 24. Put in place the PCMCIA sub-assembly on the left hand printer chassis side plate. (See Figure 2-11)
- 25. Fix the PCMCIA sub-assembly with the 3 screws M3. (See ref. A, Figure 2-11) one from the carriage stop.

WARNING: The 3 PCMCIA board fixing holes may have a wrong diameter (2.2 mm) but only on the very first 180 mm units.

In this case, you have to enlarge them to 3+ 0.5/0 mm.

- Insert fully your memory card (not supplied) in the card guides.
- Fix the memory card guides with the 2 screws M2. (See ref. B, Figure 2-11) by reinstalling the MMI.

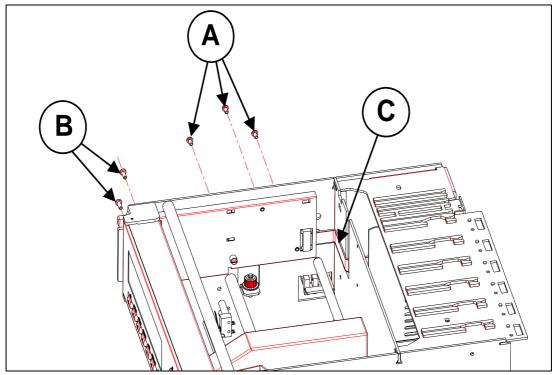


Figure 2-11

- 26. Reinstall reinforcing bar (see ref. C, Figure 2-9)
- 27. Pass the PCMCIA flat cable through the opening at the rear of the printer chassis.
 - Fix the PCMCIA flat cable on the rear metal sheet with the double-side adhesive tape. (See ref. C, Figure 2-11). The adhesive tape is located on the flat cable.
 - Ensure the printer carriage can move properly.
- 28. Replace the MMI flat cable plastic protection.
- 29. Connect the PCMCIA flat cable to the CPU board (see Figure 2-12). Ensure the connectors are located correctly.

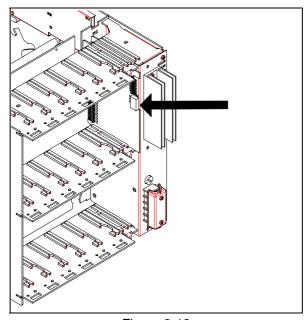


Figure 2-12

- 30. Put in place the MMI flat cable on the PCMCIA cover.
- 31. Fix it with the 2 flat cable clips supplied (with foam). (See ref. A, Figure 2-13)

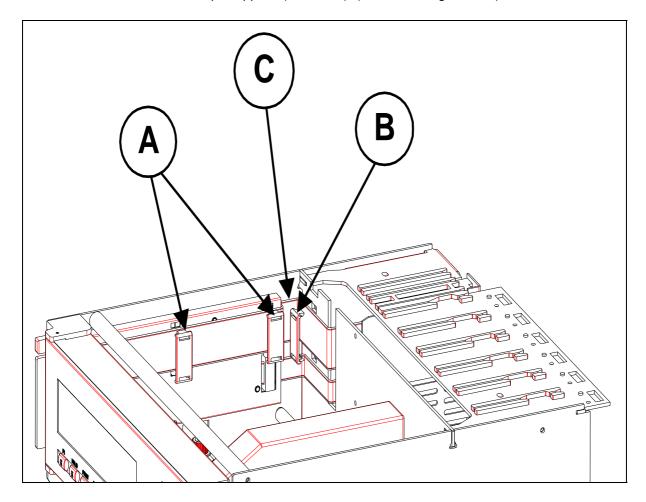


Figure 2-13

- 32. Ensure the MMI can open properly.
 - Open the MMI fully.
 - Remove the protection of the double-side adhesive tape located on the PCMCIA cover.
 - Fix the MMI flat cable.
 - Put in place the MMI flat cable at the rear of the PCMCIA cover. (See ref. C, Figure 2-13)
- 33. Put in place the third MMI flat cable clip (not supplied) at the rear of the printer chassis. (See ref. B, Figure 2-13).
- 34. Connect the MMI flat cable to the CPU Board (see Figure 2-14). Ensure the connectors are located correctly.

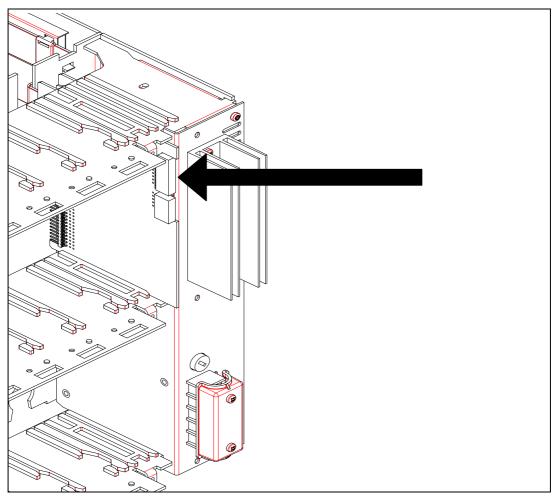


Figure 2-14

- 35. Replace the CPU board protection cover. Replace the 3 fixing screws.
- 36. Replace the slot covers.
- 37. Replace the power supply. Replace the 2 rightest fixing screws.
- 38. Slide the recorder chassis back into the outer case.
- 39. Replace the 4 fixing screws (M4) with the Torx key T20. (See ref. B, Figure 2-4)
- 40. Replace all terminal blocks and grommets.
- 41. Replace the rear cover. Replace the 3 fixing screws. (See ref. A, Figure 2-2)
- 42. Reconnect the main supply to the power supply terminal block.
- 43. Replace the power supply terminal block cover. (See ref. E, Figure 2-15)
- 44. Turn ON the switch. (See Figure 2-1).
- 45. Replace the chart cassette.
- 46. Switch ON the main supply.
- 47. Upgrade your recorder firmware if the revision is lower than 001AK. (See CK 214).

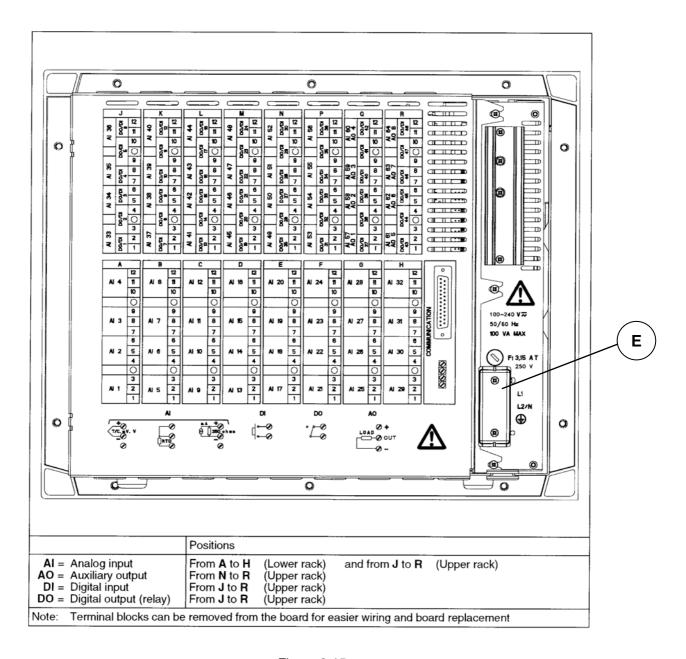


Figure 2-15

3. OPERATION

3.1 Overview

3.1.1 PCMCIA card standard compatibility

The embedded PCMCIA driver supports all **ATA flash card devices** with a size from 2Mb up to 75Mb and is compatible with the PC card format (type II).

The write-protected signal available on these cards is not tested and not used because of a lack of standard rules.

3.1.2 PCMCIA card handling

If your recorder is equipped with the PCMCIA option board, you can use a memory card to store the recorder information.

For this, proceed as indicated in the following figure to introduce the memory card:

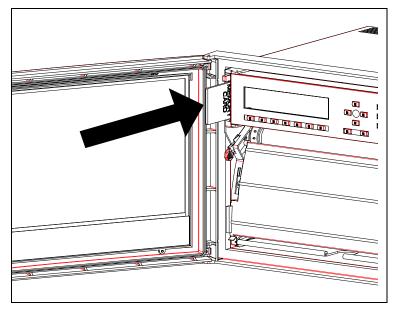


Figure 3-1: Card loading in the 180mm or 250mm recorder

Note: The recorder will automatically detect the card presence.

The recorder indicates the writing status by lighting a led located under the display (see Figure 3-2).

This led must be off when removing the memory card (this can be done with the remove or stop function), if not, some data may be lost.

To remove the memory card press the button located above it.

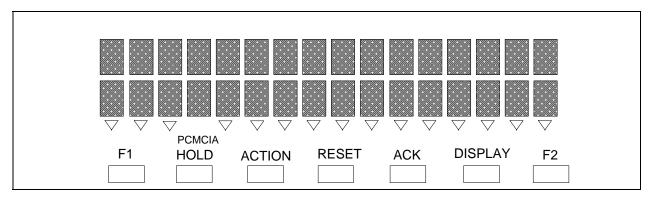


Figure 3-2: PCMCIA led in the 180mm or 250mm recorder

3.1.3 Archives summary

Archived data on a PCMCIA memory card may be:

- charts i.e analog inputs, math results or communication data,
- analog alarms,
- digital events,
- recorder events: (no paper, end of paper, burnout ...)

3.1.4 Recorder firmware compatibility

The PCMCIA option is compatible with the **001AK recorder firmware or higher**. Older firmware revisions will not allow your recorder to recognize the PCMCIA option board, the recorder will need to be updated (see the OVERVIEW section of this manual).

3.2 SETUP

3.2.1 PCMCIA communication interface configuration

The PCMCIA option board is detected at power up during the recorder's initialization time but, to be able to use it, the INTERFACE parameter of the MISCELLANEOUS configuration matrix must be set to PCMCIA.

The default configuration of this parameter is JACK, which allows to configure the recorder with the PC Configurator software.

When the option board has been detected, the PCMCIA configuration matrices (READ-WRITE, PRINT CONF and SERVICE) appear and this option becomes TRUE in recorder's hardware configuration (see the CARD USED service in the MISCELLANEOUS matrix).

SUB-MATRIX PARAMETER CLASSIFICATION

| MISCEL | INTERFACE | * * * * |
|-------------------|---|-------------------------------|
| Definition: | Determines which of the PCMCIA optic connected to the recorder. | on board or the JACK board is |
| How to modify it: | Select a new value. | |
| Possible choices: | JACK PCMCIA | |
| Default value: | JACK | |
| Note: | This parameter cannot be modified by | the PC Configurator software. |

Note: The PCMCIA service functions are only available when the interface parameter is set to PCMCIA.

3.2.2 PCMCIA card initialization

When using a memory card for the first time or when changing the file structure of that memory card (example: adding a file to it), it must be formatted by the recorder.

The recorder formats the memory card in a DOS compatible way and creates ALARMS, EVENTS and DIAGNOSTIC files if needed, the remaining space is used to create the TREND files.

To archive TRENDS on the memory cards, the DESTINATION parameter of the READ-WRITE\CHART matrix must be configured (see the chart configuration paragraph).

The storage frequency must also be programmed (see FREQUENCY parameter in the READ-WRITE\PCMCIA matrix).

The INITIALIZATION service is located in SERVICE\PCMCIA matrix. During its completion, "PCMCIA INIT" will be displayed and the PCMCIA led will light ON.

Note: All the created files are empty at the initialization time.

3.2.3 PCMCIA card test

The recorder has an internal function that enables to test the memory card. This test takes about 1 minute per Megabyte (4 minutes for a 4Mb memory card).

During the test the recorder checks the possibility to erase, write and read the entire memory space. Previous data are temporarily stored in a buffer and then re-written after the test so that this PCMCIA TEST function can be done on DOS formatted cards or not.

In case of error, the PCMCIA status is set to PCMCIA BAD, another status displayed means that the test has succeeded. (Refer to PCMCIA status § 4.2.2).

During the test the PCMCIA led lights on indicating that data are written on the card.

To stop this test at any time without damaging the card, press the SETUP key.

For more details see the TEST function in the PCMCIA\SERVICE matrix.

Note: Do not remove the card during the test function progress, this may damage the recorded data.

3.2.4 Charts selection

The TREND storage configuration is done in two steps:

- ☑ Select TRACE choice in the TRACE parameter of the READ-WRITE\CHART matrix.
- ☑ Select a value for the DESTINATION parameter, in the same matrix. See the following table:

SUB-MATRIX PARAMETER CLASSIFICATION

| CHART | DESTINATION | * * * * |
|-------------------------------------|---|----------------|
| Definition: | Determines where to print or copy charts | S. |
| How to modify it: Possible choices: | Select a new value. ON PAPER: trends are printed on paper only ON FILE: trends are stored on PCMCIA only PAPER & FILE: trends are both printed and stored in TRENDS file | |
| Default value: | ON PAPER | |
| Note: | 24 trends can be stored in the PCMCIA of mm recorder.32 trends can be stored in the PCMCIA of mm recorder. | |

3.3 Archive management

The archive management is detailed in the configuration chapter of this manual. Archiving on the PCMCIA memory card may be continuous or event driven depending on the START condition (see § 4.1.3).

3.3.1 Continuous archiving

If the START parameter is configured to CONTINUOUSLY, the information are continuously stored on the memory card.

However the archiving is stopped each time the measures are stopped, this may happen when a parameter of the configuration is changed or when a service function is running (all configuration or service parameters with the "♦ ♦" classification stop the measures and so the archiving when they are modified).

The archiving may also be stopped and restarted with the keyboard when the recording is continuous. On the contrary, the recording may be started and stopped again if the START parameter is set to NO ARCHIVE.

Note: At the beginning of the archiving, the alarms, the digital events and the recorder events which are active are recorded in the corresponding file with a star (*), this to indicate that the event or the alarm may be former to the recording date.

3.3.2 Event driven archiving

The recording may also be driven by a logic input or an alarm: an alarm on or a digital input closed to start the recording and the same alarm off or the same logic input opened to stop it (see § 4.1.3)

As in the continuous archiving mode, the operator can start or stop the archiving with the keyboard (see § 3.4).

The recorder continuously stores the alarms and events status changes in an internal buffer. Therefore, when the archiving starts, the recorder stores the latest alarm or event status change. Consequently the alarm or event dates may be prior to the archiving start date.

Note: When driving the archiving both with an event and with the keyboard, the latest action takes the priority.

3.4 Keyboard archive management

The archive may be managed automatically, but in addition some actions may be done with the keyboard.

3.4.1 START/STOP actions

By pressing the PRINT key it is possible to access to the "STOP ARCHIVE" or to the "START ARCHIVE" action depending whether the archiving is running or not.

When the storage is in progress, the "STOP ARCHIVE" message will be displayed, otherwise the "START ARCHIVE" message will be displayed.

The archiving can also be started or stopped by pressing F1 or F2 keys if the parameters F1 KEY or F2 KEY in the READ-WRITE\MMI matrix are configured to "START/STOP ARCH".

3.4.2 RESET PCMCIA files

The way to erase the files content (to start a new archive session) is to RESET the PCMCIA card by pressing RESET key and selecting the RESET PCMCIA choice. This is also an easy way to initialize a new PCMCIA card using.

WARNING → The RESET PCMCIA action will delete all the data stored on the card!

There is no backup done by the recorder. Information must be saved if needed with an external PC by using a File manager for example.

3.4.3 REMOVE PCMCIA function

To prevent any loss of data when removing the memory card, the REMOVE PCMCIA function must be used if the archiving is running (PCMCIA triangle lit ON).

The "REMOVE PCMCIA" action is accessible through the PRINT key.

The "REMOVE PCMCIA" action is also accessible by pressing the F1 or F2 keys if the parameters F1 KEY or F2 KEY in the READ-WRITE\MMI matrix are configured to "REMOVE PCMCIA".

The system data is saved so that the card can be removed.

During this time, PCMCIA card status becomes CARD PENDING and possible data will be stored in a temporary buffer.

3.5 PCMCIA information

3.5.1 PCMCIA status

The recorder provides a memory card status (see § 4.2.2 STATUS service) to help in the card utilization. This status may be one of the following cases:

| Status | Description | Solution |
|--------------------|--|---|
| PCMCIA MISSING * | There is no PCMCIA memory card inside the recorder or the card has not been detected. | Insert a compatible PCMCIA memory card |
| PCMCIA NOT INIT*** | Card has been recognized but it has not been initialized. | Initialize the memory card (see § 4.2.2) |
| PCMCIA PENDING** | Data cannot be stored on the PCMCIA card because the configuration stored on it does not match the recorder configuration or there is no memory card. | Insert a memory card, Initialize it or reset it.(see § 4.2.2) |
| PCMCIA BAD*** | Some data could not have been stored on PCMCIA because of a physical problem on it. | Change the memory card |
| CARD PRESENT* | A PCMCIA card is present with no problem detected. | |
| PCMCIA CONF CHG** | There is a difference between the configuration of the recorder and the parameters stored on the memory card, the parameters may be one of the following: the ld number, the language, the trace, the destination, the tagname and the engineering unit. | Restore the same configuration on the recorder or RESET the memory card. |
| PCMCIA FULL*** | One of the PCMCIA files is nearly full according to the EVENT definition (see the "%FULL" parameter in § 4.1.3). | Remove the PCMCIA card and save the files on your computer. Introduce it back and reset |
| | | it (see § 4.2.2). |
| PCMCIA DATA LOST** | This message is displayed if data to be written on the PCMCIA card have not been stored and have been removed from the internal buffer. | See the PENDING case |
| | This appears when the recorder archiving has started data and no memory card is inserted for a long period. | |

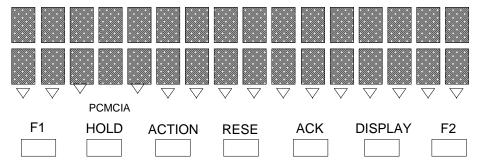
^{*} Information accessible through the STATUS service described in the paragraph 4.1.3.

^{**} Information displayed in run mode, not visible with the STATUS service.

^{***} Information displayed in run mode and visible with the STATUS service.

3.5.2 PCMCIA card status display

If PCMCIA card attribute is STORING, then a triangle appears. This means that any card removal could cause data losses on the card.



This triangle is turned off during the recorder configuration.

Note: The PCMCIA led must be lit on, for the recorder to be able to store data on the PCMCIA card.

3.5.3 PCMCIA event

The PCMCIA EVENT located in the READ-WRITE\EVENTS matrix (refer to the product manual) is activated if the PCMCIA card or the driver is in one of the following conditions:

| MESSAGE DISPLAYED | DESCRIPTION | SOLUTION |
|----------------------|---|--|
| PCMCIA NOT INIT | The card has not been initialized by the recorder. | Initialize the memory card. |
| PCMCIA BAD | There is a failure in the card device. | Change the memory card. |
| PCMCIA FULL | At least one archive file (TRENDS, ALARMS, EVENTS or DIAGNOSTIC) has reached the user-defined %full threshold (see the % FULL parameter in the READ-WRITE\PCMCIA matrix). | Save the files on your computer and reset the memory card (see § 4.2.2). |

Note: When the PCMCIA FULL message is displayed, the recording continues till the 100% full is reached then all additional informations to this file are lost except if the ROLLOVER option is set (see § 4.1.3). Other files continue to be normally updated.

3.6 PCMCIA file descriptions

All PCMCIA card files are PC-compatible and are readable by the TrendManager Software package.

3.6.1 File name conventions

PCMCIA files have a fixed extension according to their content: TRENDS (*.LNT), ALARMS (*.LNA), EVENTS (*.LNE) and DIAGNOSTICS (*.LND).

The content of each type of file is:

- .LNT files contain CHARTS records
- .LNA files contain ALARMS records (all analog alarms)
- .LNE files contain DIGITAL events records
- .LND files contain recorder EVENTS records.

The recorder stores data depending on its configuration: TRENDS (**charts** channels records) informations are sent to the PCMCIA driver at user-defined frequency, ALARMS (**alarms** records), EVENTS (**digital events** records) and DIAGNOSTIC (**recorder events** records) are asynchronous informations and so, are sent at each occurrence.

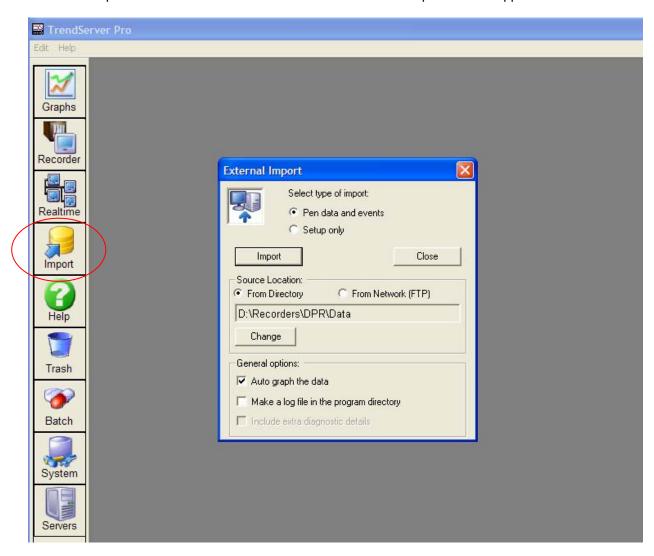
[&]quot;PCMCIA BAD", "PCMCIA NOT INIT", "PCMCIA FULL" or "PCMCIA PENDING" could be displayed on the lower display as blinking message, depending on the corresponding status.

3.6.2 Import data to the TrendManger software

The TrendManager Software Suite has a built in Data Conversion Tool that will accurately reproduce data from the Honeywell VRX recorder range

The data is imported from the device media using the TrendManager Pro Software Suite Import function into the database.

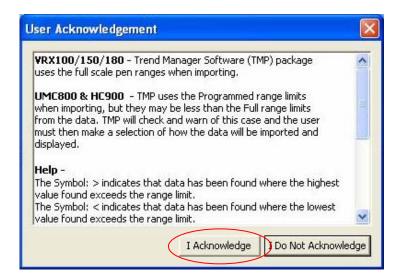
Select the Import button from the main tool bar and the External import box will appear.



Select the data option and select From Directory as the source location.

Use the Change button to browse your PC or network to locate the data.

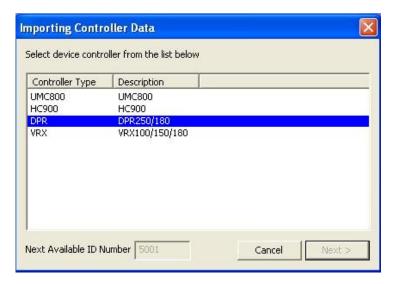
Press the Import button when the correct location has been selected.



The User Acknowledgement box will appear; to proceed this must be acknowledged.

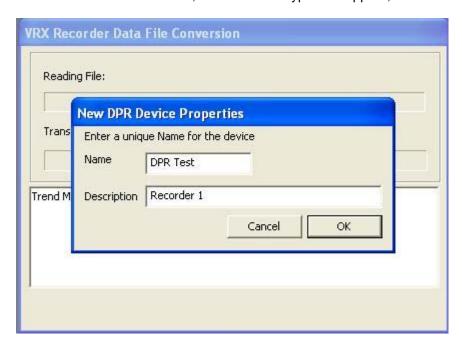


Select to import data to a New or Existing device. For an Existing device the Importing Controller box will display the existing devices in the TMP databases.

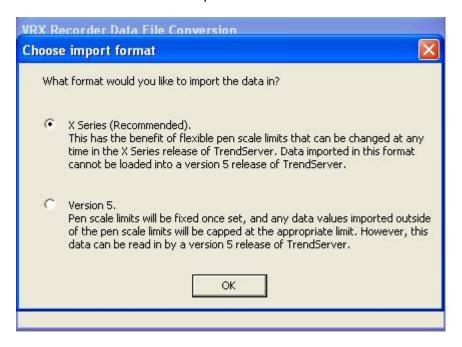


Select the device you wish to import the data from and click on Next. This will start the data importing.

If the data is for a New device, a list of device types will appear, select one and go to Next.



Enter a device name and description and click on OK.

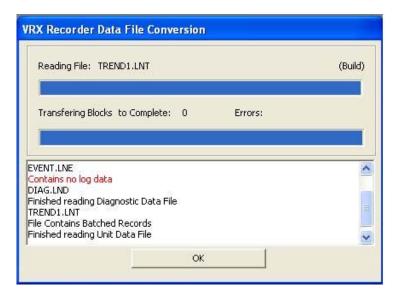


Next choose the format type for the importing data. The two different formats are:

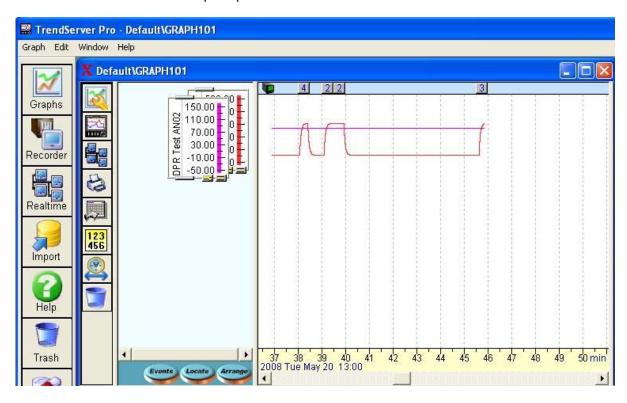
X Series (recommended) - This has the benefit of flexible pen scale limits that can be changed at any time in the X Series release of TrendServer. Data imported in this format cannot be loaded into a version 5 release of TrendServer.

Version 5 - Pen scale limits will be fixed once set, and any data values imported outside of the pen scale limits will be capped at the appropriate limit. However, this data can be read in by version 5 release of TrendServer. Click on OK and the data will start to import.

If there is a device in the database with the same Serial number but a different ID, this will be flagged up and you can choose to add the data to this device or a new device will be created. For a new device choose from the Database Device Destination User Selection box.



The Data File conversion will start and the destination box will appear to confirm the correct device. When the file conversion is complete press ok.



When the import is complete the data will be automatically displayed as a graph showing the data as pen traces and displaying each associated pen. Any events will be imported (via Trendbus only) with the data and can be displayed on the graph using the Event button at the bottom of the graph.

The device is loaded into the recorders list for identification purposes, click on the Recorders icon to display the list of recorders. The device can not be configured from the software. The imported data can be graphed, analyzed, archived, printed and exported to a spread sheet.

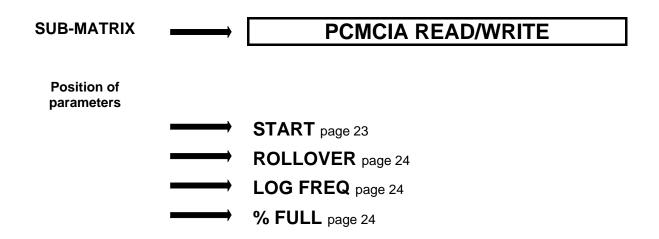
For data imported from Honeywell V5, X Series recorders, an Event viewer is available by right clicking on the recorder in the recorders list and selecting Events.

Refer to the TrendManager Pro Software Suite manual 43-TV-25-11 for further information. Available at www.honeywell.com/ps

4. PCMCIA CONFIGURATION

4.1 PCMCIA sub-matrix parameters

4.1.1 PCMCIA sub-matrix parameters list



4.1.2 Explanation of the classification

This section will describe all the matrices that have been modified by the PCMCIA option and then, how configuration will be possible.

| • | Means that parameter can be modified in RUN mode (measures are still done) |
|------------|--|
| * * | Means that parameter can be modified in STOP mode (measures are stopped) |
| * | Means that parameter can be modified with password 1 or password 2 |
| ** | Means that parameter can be modified with password 2 only |

4.1.3 PCMCIA sub-matrix parameters description

| SUB-MATRIX | PARAMETER | CLASSIFICATION |
|-------------------|---|----------------|
| PCMCIA | START | * * * * |
| Definition: | Automatic start conditions | |
| How to modify it: | Select a new start condition | |
| Possible choices: | NO ARCHIVE CONTINUOUSLY DI CLOSED # AL ON # | |
| Default value: | NO ARCHIVE | |
| Note: | Stop conditions are the following: DI OPENED # AL OFF # | |

SUB-MATRIX PARAMETER CLASSIFICATION

| PCMCIA | ROLLOVER | * * * * |
|-------------------|--|----------------|
| Definition: | Determines if, once the end of archive are copied at the beginning of this file recent data, or not. | • |
| How to modify it: | Select or not rollover mode | |
| Possible choices: | DISABLE ENABLE | |
| Default value: | DISABLE | |

SUB-MATRIX PARAMETER CLASSIFICATION

| PCMCIA | LOG FREQ | * * * * |
|-------------------|---|--------------------------------------|
| Definition: | Archive frequency used to log TRENDS files. | |
| How to modify it: | Select a new frequency. | |
| Possible choices: | 1 s 5 s 10 s 15 s 30 s 1 mn 5 mn 10 mn | |
| Default value: | 30 mn 10 s | |
| Note: | In case of a change in the login frequency software will make interpolations (de or not) to produce a trend at the high | pending if that option is configured |
| | It is recommended in that case to rea | ad the file without interpolation. |

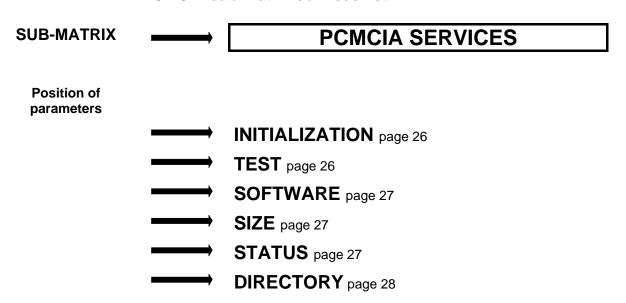
SUB-MATRIX PARAMETER CLASSIFICATION

| PCMCIA | % FULL | * * |
|-------------------|---------------------------------|------------|
| Definition: | Determines PCMCIA EVENT thresho | old. |
| How to modify it: | Select a threshold in %. | |
| Possible choices: | 0 to 100% | |
| Default value: | 90% * | |
| See also: | PCMCIA in EVENTS matrix | |

^{*} The default value is 0% if the recorder was previously equipped with a firmware revision older than 001AK.

4.2 PCMCIA sub-matrix services

4.2.1 PCMCIA sub-matrix services list



NOTE: The memory card must be present in the recorder in order to access to the service functions and the INTERFACE parameter must be set to PCMCIA.

4.2.2 PCMCIA sub-matrix services description

SUB-MATRIX PARAMETER CLASSIFICATION

| PCMCIA | INITIALIZATION ♦ ♦ ♣ ♣ | |
|------------------------|--|--|
| Definition: | Formats and initializes PCMCIA board. | |
| How to use/execute it: | At first, you have to enter the number of records you want for ALARMS files: "Nb ALARM REC?" is blinking and you can type it (1651 max). | |
| | Then their file name (7 characters max.): "ALARM NAME ?" is blinking and you can type it. | |
| | Then the number of records for EVENTS files: "Nb EVENT REC?" is blinking and you can type it (1651 max). | |
| | Then its file name (7 characters max.): "EVENT NAME?" is blinking and you can type it. | |
| | The number of records for DIAGNOSTIC files: "Nb DIAG REC?" is blinking and you can type it (2667 max). | |
| | Then its file name (7 characters max.): "DIAG NAME?" is blinking and you can type it. | |
| | And finally, we have to type TRENDS file names (7 characters max.): "TREND NAME?" is blinking and you can type it. | |
| | During completion, "PCMCIA INIT" is displayed. | |
| Notes: | At each step, you can abort this initialization by pressing SET UP key. Default file names are "ALARM" for ALARM, "EVENT" for EVENT, and "DIAG" for DIAGNOSTIC and their extensions are automatically added. If another file name has been entered, then it takes the place of the default one for the following answers. A digital index is automatically added to trend file names on PCMCIA card. ALARM, EVENT and DIAG records are organized in blocks and the files use sectors of 512 bytes (as in the DOS) so that the effective number of records may be greater than the programmed number of records. If the number of records is set to "0", the corresponding file is not created. | |

SUB-MATRIX PARAMETER CLASSIFICATION

| PCMCIA | TEST | * * * * |
|------------------------|---|--------------------------------------|
| Definition: | Tests PCMCIA device. | |
| How to use/execute it: | By pressing ENTER, PCMCIA board driver tests execution, the percentage of test completion is of | |
| | For example: "15% PASSED" | |
| | If an error occurs during this test, "FAILED" app PCMCIA status becomes PCMCIA BAD. | pears during 2s. Test is aborted and |
| Note: | At any moment, you can abort the process by us | sing SETUP key. |
| | The test duration is about 1 minute per Megabyt | te of capacity. |

SUB-MATRIX PARAMETER CLASSIFICATION

| PCMCIA | SOFTWARE | * * |
|------------------------|--|------------|
| Definition: | PCMCIA board driver software revision. | |
| How to use/execute it: | You can only read the value. | |
| | You can exit by pressing SETUP key. | |

SUB-MATRIX PARAMETER CLASSIFICATION

| PCMCIA | SIZE | * * | | |
|---|-------------------------------------|------------|--|--|
| Definition: | PCMCIA board size in Mb. | | | |
| How to use/execute it: You can only read the value. | | | | |
| | You can exit by pressing SETUP key. | | | |

SUB-MATRIX PARAMETER CLASSIFICATION

| SUB-IVIA I NIX | FANAIVIETEN | CLASSIFICATION | |
|------------------------|--|-------------------------------------|--|
| PCMCIA | STATUS | * * | |
| Definition: | finition: Return status of PCMCIA board. | | |
| | PCMCIA board status could be: | | |
| | PCMCIA MISSING: the card is not inboard | | |
| | PCMCIA NOT INIT : the card has to be initialized (cf INITIALIZATION parameter in this matrix) | | |
| | PCMCIA BAD : the card cannot be continuous it again or test it. | orrectly used by the PCMCIA driver. | |
| | PCMCIA FULL : at least, one of the included file is full according to the threshold configured by the user (cf "%FULL" parameter in READ/WRITE PCMCIA matrix. | | |
| | PCMCIA PRESENT: the card is read | ly to be used | |
| How to use/execute it: | You can only read the status. | | |
| | You can exit by using SETUP key. | | |

| PCMCIA | DIRECTORY | * * | |
|------------------------|---|--|--|
| Definition: | Allows you to read PCMCIA card directory: the names of the files on the memory card (with DOS extension), the number of records used and remaining per file are displayed (only the files compatible with the recorder data are displayed). | | |
| How to use/execute it: | If a file exists, its name and its index are first displayed in the PCMCIA card: | | |
| | <u>Ex</u> : 01 ALARM | LNA | |
| | With the ↑ and ♥ keys, you can so The ← and → keys allow you to dis used in this file and the number of re displayed to show you which is the | play the number of records already emaining records. The file index is still | |
| | Ex : Press →. Then the following message appears on the display:01 U: 12 | | |
| | That means that 12 records have already been written on the 1st file. Press → again: The following string is shown: 01 R: 1488 | | |
| | That means that 1488 records are s | till available for this 1st file. | |
| | Or the following string is shown for TREND files: | | |
| | 01 R: 1 1 | 0 : 45 | |
| | | for 1 day 10 hours and 45 minutes of | |
| | archiving time. Note that except for TREND files, the to the size given or computed during | ne total number of records corresponds g PCMCIA card initialization. | |
| | You can exit by using SETUP key. | | |

5. KITS LIST

| KITS LIST | PART# |
|---------------------------------|--------------|
| PCMCIA upgrade kit | 46190163-501 |
| Compact Flash Card 256MB | 50001011-504 |
| Compact Flash to PCMCIA Adapter | 50001014-501 |
| TrendManager Analysis software | 50016133-501 |

6. TROUBLESHOOTING

6.1 PCMCIA option is not recognized by the recorder (PCMCIA matrix does not appear)

CHECK

Check if the flat cable connection between PCMCIA board and CPU board is correct.

DIAGNOSTIC / ACTION

1. NO: Check for the proper connection.

6.2 PCMCIA INIT service is not possible

CHECK

Is PCMCIA memory card really plugged into the driver?

Is problem corrected?

DIAGNOSTIC / ACTION

1. NO: Insert the card into the board.

2. NO: Verify you only use ATA flash card devices (see Section 5 - Kits list for certified cards).

6.3 "PCMCIA FULL" message is displayed on the recorder

CHECK

What is the threshold value in READ-WRITE\PCMCIA matrix?

Is problem corrected?

DIAGNOSTIC / ACTION

1. Increase this value to disable "PCMCIA FULL" message display.

2. NO: Initialize PCMCIA card again with INIT utility in PCMCIA / SERVICE matrix and increase the number of records for the files which are too small.

6.4 "PCMCIA NOT INIT" message is displayed on the recorder

CHECK

DIAGNOSTIC / ACTION

1. Initialize the card by using INIT menu in PCMCIA / SERVICE matrix.

6.5 "PCMCIA BAD" message is displayed on the recorder

CHECK

Is the card readable by an external driver?

DIAGNOSTIC / ACTION

1. NO: Change the card.

- 2. YES: Run a TEST (PCMCIA / SERVICE).
 If the test is successful, then the card is OK.
- If the test stops before reaching 100 % of completion then an area of the card is bad. The card has to be changed.

6.6 "PCMCIA PENDING" message is displayed on the recorder

CHECK

Check the PCMCIA STATUS in

PCMCIA / SERVICE :

PCMCIA MISSING

PCMCIA BAD

PCMCIA NOT INIT

PCMCIA PRESENT

DIAGNOSTIC / ACTION

The archive is ON and no card has been inserted in the

driver. Insert a card to turn off the display.

The archive is ON and the inserted card is bad. Refer to §

6.5 to check card validity or insert a valid card.

The archive is ON and the inserted card is not initialized.

Refer to § 6.4.

The card has been initialized but part of the archiving

configuration stored on the card does not match with the configuration of the recorder. Press RESET key and select RESET PCMCIA menu to make both configurations match.

WARNING → A RESET PCMCIA will erase all previous

data stored on the card.

6.7 PCMCIA triangle does not appear on the display when archiving

CHECK

Check INTERFACE parameter in MISCELLANEOUS / Read/Write

Check START parameter in PCMCIA / Read/Write

Is PCMCIA PENDING displayed on the MMI?

DIAGNOSTIC / ACTION

Turn parameter to PCMCIA.

If the archive is triggered by an alarm or a digital status, check alarm or digital status which should start the archiving (Press the DISPLAY key and select ALARM STATUS or LOGIC STATES).

Refer to § 6.6

6.8 No data have been written on the card

CHECK

Check START parameter in PCMCIA / Read/Write

Was PCMCIA PENDING displayed on the MMI?

Check ROLLOVER parameter in PCMCIA / Read/Write

DIAGNOSTIC / ACTION

The archiving start condition has not been met. No data have been stored on the card.

Refer to § 6.6

If ROLLOVER is set on DISABLE, check in DIRECTORY (PCMCIA / SERVICE) the amount of records that it is still possible to store. If this amount is 0, no data will be recorded on this file. Turn ROLLOVER to ENABLE or either reset or initialize the card.

6.9 SDA generates an error while opening trend files in chart display

CHECK

DIAGNOSTIC / ACTION

- 1. An archived Math function has returned an error code which prevents SDA from charting correctly this channel. Open the trend file in the data table format and note the math in error. Open the trend file in the trend format and remove the math function in error from the list of selected traces to be charted.
- 2. When the archiving process is incorrectly interrupted (ie: power off while archiving), it may happen that SDA displays an error message while opening the archive files. Files are nevertheless still readable except for their last data part. It is then recommended in that case to reduce the last time to display in the SDA opening trend files window.

7. PROMPTS TRANSLATION

| EN | FR | GE | SP | IT |
|-----------------------------|-------------------------------|-------------------------------|------------------------------|----------------------------------|
| LIV | 111 | OL . | OI . | |
| PCMCIA | PCMCIA | PCMCIA | PCMCIA | PCMCIA |
| CONFIRM | CONFIRMER | BESTÄTIGEN | CONFIRM | CONFERMA |
| | • | • | • | • |
| PARAMETERS | 1 | · | t | t |
| START | DEMARRAGE | START | EMPEZAR | PARTENZA |
| R0LLOVER LOG FREQ | RE-ENRG FREQ ENRG | UEBERSCHR FREQ AUFZ | VUELTA FREC LOG | RICARICARE FREQ LOG |
| % FULL | % PLEIN | % VOLL | % LLENO | % PIENO |
| INIT | INIT | INIT | INICIALIZ | INITIALIZZA |
| TEST | TEST | TEST | PRUEBA | TEST |
| SOFTWARE | LOGICIEL | SOFTWARE | SOFTWARE | SOFTWARE |
| SIZE | TAILLE | GROESSE | TAMANO | DIMENSIONE |
| STATUS | ETAT | STATUS | ESTADO | STATO |
| DIRECTORY | REPERTOIRE | VERZEICHNIS | REPERTORIO | DIRECTORY |
| POSSIBLE VALUES | | | | |
| NO ARCHIVE | PAS ARCHIVE | KEIN ARCHIV | NO ARCHIVO | NO ARCHIVIO |
| AL ON # | AL ON N° | AL EIN NR | AL ACTIV # | ALL ON# |
| DI CLOSED# | LO FER N° | BI SCHL NR | ED CERRA # | DI CHIUSO# |
| CONTINUOUSLY | CONTINU | DAUERND | CONTINUAMENT | CONTINUO |
| NB ALARM REC? | NB PTS ALARME ? | ANZ REG ALARM | N REG ALARMAS ? | N PUNTI ALLARME |
| ENABLE | AUTORISE REFUSE | AKTIVIEREN INAKTIVIEREN | ACTIVAR DEACTIVAR | ABILITATO |
| DISABLE ALARM NAME? | NOM ALARME ? | ALARM BEZEICHNG | NOMBRE ALARMA? | DISABILITATO NOME ALLARMI |
| NB EVENT REC? | NB PTS EVT ? | ANZ REG EREIGN | N REG EVENTOS ? | N PUNTI EVENTI |
| EVENT NAME | NOM EVT ? | EREIGN BEZEICHNG | NOMBRE EVENTO ? | NOME EVENTI |
| NB DIAG REC? | NB PTS DIAG? | ANZ REG DIAGR | N REG DIAG? | N PUNTI DIAG |
| DIAG NAME | NOM DIAG ? | DIAGR BEZEICHNG | NOMBRE DIAG? | NOME DIAG |
| TREND NAME | NOM TRACE ? | TREND BEZEICHNG | NOMBRE TRAZA ? | NOME TRACCE |
| % PASSED | % TEST BON | % ERFOLG | % BUENA | % TEST BUONO |
| FAILED | ECHEC PCMCIA MAUVAISE | FEHLERHAFT | MALA PCMCIA DEFEC | NO RIUSCITO PCMCIA GUASTA |
| PCMCIA BAD PCMCIA FULL | PCMCIA MAOVAISE | PCMCIA AUSFALL PCMCIA VOLL | PCMCIA LLENA | PCMCIA GUASTA PCMCIA PIENA |
| PCMCIA NOT INIT | PCMCIA PLEINE PCMCIA NON INIT | PCMCIA VOLL | PCMCIA ELENA PCMCIA SIN INIC | PCMCIA PIENA PCMCIA NON INIZ |
| PCMCIA PENDING | PCMCIA EN ATT. | PCMCIA WARTEZUST | PCMCIA PENDIENTE | PCMCIA IN ATTESA |
| PCMCIA DATA | PERTE DE DONNEES | VERLOR DATEN | DATOS PERDIDOS | DATI PERSI |
| LOST | | | | |
| PCMCIA PRESENT | PCMCIA PRESENTE | PCMCIA VORHANDEN | PCMCIA PRESENTE | PCMCIA PRESENTE |
| PCMCIA MISSING | PCMCIA ABSENTE | PCMCIA VERREIST | PCMCIA SACADA | PCMCIA ASSENTE |
| REMOVE PCMCIA | RETIRER PCMCIA | ENTFERNE PCMCIA | QUITAR PCMCIA | TOGLIERE PCMCIA |
| RESET PCMCIA PCMCIA INIT | RAZ PCMCIA INIT PCMCIA | PCMCIA ZURUECKS INIT PCMCIA | REINICIAR PCMCIA INIC PCMCIA | RESET PCMCIA INIZIALIZ PCMCIA |
| Mb | Mo | MB | Mb | MB |
| PCMCIA CONF | PCMCIA CHGT CONF | PCMCIA KONFÄNDRG | CAMB CONF | CAMB CONF |
| CHG | | | PCMCIA | PCMCIA |
| START ARCHIVE | DEBUT ARCHIVE | START ARCHIVIERG | INICIAR ARCHIVO | START ARCHIVIO |
| STOP ARCHIVE | FIN ARCHIVE | STOP ARCHIVIERG | PARAR ARCHIVO | STOP ARCHIVIO |
| PCMCIA EVENT | EVT PCMCIA | PCMCIA EREIG | SUC PCMCIA | EVEN PCMCIA |
| WAIT PLEASE | ATTENDEZ SVP | BITTE WARTEN | ESPERE P. FAVOR | ATTENDERE |
| INTERFACE | INTERFACE | INTERFACE | INTERFASE | INTERFACCIA |
| S | S | SEKUNDE SEKUNDEN | S | S |
| mn | mn | MINUTE | mn | mn |
| | | MINUTEN | | |
| | • | ı | • | • |

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