



||| A STEP AHEAD IN DIGITAL TELEVISION

SMART PROGRAM

HOW TO INSTALL THE SMART IN YOUR PC

CUSTOMER SUPPORT

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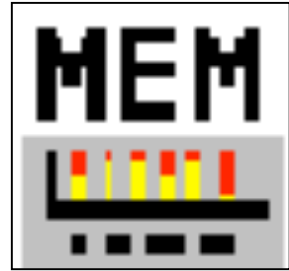
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SMART PROGRAM: HOW TO INSTALL THE SMART IN YOUR PC

- a) Download the S.M.A.R.T. program from ROVER web site. The file containing the SMART program is zipped and can be unzipped using the Unzip® or Winzip® computer programs.
- b) Click on the SETUP.exe file in the installation kit folder to start the program installation;
- c) You can modify the installation folder; if the name of this folder is not modified, the program creates a folder called S.M.A.R.T.
- d) The SMART program inserts an icon in the program list of your computer and an icon link on your desktop. By clicking on this icon, the SMART program starts up automatically.




1.1 HOW TO CONNECT YOUR MEASURING INSTRUMENT TO A PC

This procedure allows the SMART program to recognise the instrument connected to the PC.

SIMPLE PROCEDURE

INSTRUMENT – PC CONNECTION

1. Connect your instrument to the PC
2. Turn on your instrument
3. Start the Smart program
4. Click  on the SMART icon menu
5. Follow the instructions shown on the screen until the connection is achieved.

DETAILED PROCEDURE

CONNECTION BETWEEN INSTRUMENT & PC

- a) Connect the instrument to the PC using the Null Modem cable or the USB cable provided with the meter.
- b) Turn on your instrument.
- c) Start the SMART program.
- d) From the SMART program menu, click on “**Instrument**” and “**Connect Instrument**”,
- e) In the “**Instrument Type**” window, select your instrument’s model and confirm your selection clicking on “**OK**”.

NOTES

- a) If the procedure is carried out correctly, the status bar on the bottom right will show the instrument data (instrument model, serial number and firmware version).

WARNINGS


- a) If the up-grade procedure does not work, check connections and repeat the connection procedure.

1.2 FIRMWARE UPGRADES

This procedure allows you to upgrade your measurement instrument with the last Firmware version available in our website.

SIMPLIFIED PROCEDURE

FIRMWARE UP-GRADE

1. Download the the up-grade firmware from Rover website.
3. Connect your instrument to a PC.
4. Start the SMART program.
5. Click  on the SMART icon menu.
6. Follow the instructions on the screen until the procedure has been completed.

DETAILED PROCEDURE

HOW TO DOWNLOAD FIRMWARE UP-GRADES FROM INTERNET

- a) Download from ROVER-INSTRUMENTS Service and Support internet web site the up-grade regarding your instrument and save it on your PC desktop,
- b) The file containing the firmware is zipped, please un-zip it.

HOW TO PREPARE YOUR MEASUREMENT INSTRUMENT FOR AN UP-GRADE

- a) Connect your measurement instrument to the PC's using the Null Modem or USB cable,
- b) Turn on your measurement instrument and connect it to the mains.

HOW TO UP-GRADE YOUR INSTRUMENT USING A PC

- a) Start the Smart program,
- b) Click on **"Instrument"** and **"Up grade Firmware"** ,
- c) In the **"Open"** window, select the file you want to use for the up-grade and confirm your selection by clicking on **"open"**,
- d) The **"Upgrade Firmware"** window will open where you can select the instrument model,
- e) Click on **"Command Upgrade"** to start the up-grade.

NOTES

- a) When the up-grade has been correctly completed the PC screen will show the words "Program Successful" and a summary window showing the instrument settings.
- b) Check the new firmware version number on the Start Up screen or self-test windows of your measurement instrument.

WARNINGS

- a) Do not use the instrument during the up-grade procedure.
- b) If the up-grade procedure does not work check connections and repeat the process.
- c) Do not disconnect the meter from the PC during the upgrade procedure.




*All logos are registered by their owners.

1.3 GET SCREEN

This function allows you to transfer any display from your measurement instrument to a PC.

SIMPLIFIED PROCEDURE

GET SCREEN

1. Carry out all the necessary connections (see paragraph 1.0)
1. Click on  .
2. Wait for the display to appear on the PC monitor.
3. Select one of two options:
 - Print from the PC by pressing  on the SMART icon menu
 - Save it on the PC by pressing  on the SMART icon menu (a bitmap file is generated).

DETAILED PROCEDURE

HOW TO TRANSFER A DISPLAY FROM THE MEASUREMENT INSTRUMENT TO PC

- a) Connect your instrument to a PC by following the procedure described in paragraph 1.0.
- b) On the SMART menu click on “**Tools**” and “**Get Screen**”.
- c) Wait for the display to appear on the PC monitor.

HOW TO PRINT THE DISPLAY

- a) On the SMART menu click on “**File**” and select “**Print Setup**”.
- b) Configure the print settings and press “**OK**” to confirm.

HOW TO SAVE THE DISPLAY

- a) On the SMART menu click on “**File**” and select “**Save As**”.
- b) Chose a location where you want to save the file and press “**Save**”.
- c) SMART will save the display obtained from the meter in a bitmap format.

NOTES




- a) Pictures are saved with file type .bmp (Bitmap),
- b) Only the measurement instrument displays may be transferred to the PC; demodulated television pictures can not be transferred.

1.4 INSTRUMENT FILE MANAGER (DATA LOGGER TRANSFER)

This operation allows you to transfer a Data Logger from your measuring instrument to a PC and then print or save it in a file.

SIMPLIFIED PROCEDURE

HOW TO TRANSFER A DATA LOGGER TO A PC

1. Carry out all the necessary connections (see paragraph 1.0)
2. Click on  on the SMART icon menu.
3. Wait for the complete file list to be uploaded from your measurement instrument
4. Click on the Logger folder and open the Logger file
5. Select one of the following options:
 - Print a logger file by pressing  on the SMART icon menu
 - Save a data logger in your PC by pressing  on the SMART icon menu
 - Delete a data logger from the “**Instrument File Manager**”
 - Export a Data Logger to an Excel or Word file

DETAILED PROCEDURE

HOW TO TRANSFER A DATA LOGGER

- a) Connect your instrument to a PC by following the procedure described in paragraph 1.0,
- b) On the SMART menu click on “**Instrument**” and select “**Instrument file manager**”,
- c) Wait for the files to be uploaded from your measurement instrument,
- d) Open the Logger folder ,
- e) All available logger files will be listed.
- f) Click twice on a logger file to display it.

HOW TO PRINT A FILE LOGGER

- a) Open the Logger folder,
- b) Select and open the Logger file you want to print,
- c) On the SMART menu click on “**File**” and select “**Print**”,
- d) Configure the print settings and press “**OK**” to confirm.

HOW TO SAVE A DATA LOGGER ON A PC

- a) Open a Logger file,
- b) Select and open the Logger file you want to save,
- c) On the SMART menu click on “**File**” and select “**Save as**”,
- d) Chose the location where you want to save the file and press “**Save**”.

HOW TO DELETE A DATA LOGGER

- a) Open the Logger folder,
- b) Select from the “**Instrument File Manager**” window the logger file you want to delete,
- c) Press the “**Delete**” key in the “**Instrument File Manager**” window,
- d) The file will be cancelled on instrument.

HOW TO EXPORT A DATA LOGGER TO AN EXCEL SPREADSHEET




- a) Open the logger folder,
- b) Select and open the logger file you want to export,
- c) On the SMART menu click on “**File**” and select “**Export**”,
- d) Name the file and choose the location where you want to save it,
- e) Choose file type .XLS and select “**Save**”.

1.5 INSTRUMENT FILE MANAGER (MEMORY PLAN MANAGEMENT)

This function allows you to transfer and manage a Memory Plan to your PC to modify or print it.

SIMPLIFIED PROCEDURE

MEMORY PLAN MANAGEMENT

1. Carry out all the necessary connections (see paragraph 1.0)
2. Click on  on the SMART icon menu
3. Wait for the complete file list to be uploaded from your meter
4. Open the **Mem** Plan folder
5. Select the file you want to open
6. Select one of the following options:
 - Download a Memory Plan from your meter to PC
 - Modify a Memory Plan
 - Upload a Memory Plan from a PC to your meter
 - Print a Memory Plan by pressing  on the SMART icon menu
 - Save a Memory Plan by pressing  on the SMART icon menu
 - Delete a Memory Plan in the “**Instrument File Manager**”

DETAILED PROCEDURE

HOW TO TRANSFER A MEMORY PLAN FROM YOUR METER TO A PC

- a) Connect your measurement instrument to a PC as described in paragraph 1.0
- b) On the SMART menu click “**Instrument**” and select “**Instrument File Manager**”.
- c) Wait for the complete file list to be uploaded on to your PC.
- d) The “**Instrument File Manager**” window will appear on the screen. Open the Mem. Plan folder required by clicking twice.
- e) All memory files will be listed.

HOW TO MODIFY AN EXISTING PROGRAM

- a) Select and open the Memory file you want to edit,
- b) Click twice on the line relative to the program you want to edit,
- c) The program opens a window where you can modify all the parameters of the chosen program.

HOW TO ADD A PROGRAM

- a) Using the right key on your mouse, click on the line you want to modify and select “**Add**”,
- b) Carry out the settings of the new program in the window that opens,
- c) Press “**OK**” to confirm the addition of a program.

HOW TO TRANSFER A MEMORY PLAN FROM A PC TO AN INSTRUMENT

- a) Once you have edited a memory plan, click on the “**PC-Instrument**” key in the **MEM. PLAN** properties section (on the right of the screen) to transfer a memory plan from the PC to your measurement instrument,
- b) The memory plan will load in the measurement instrument.

HOW TO PRINT A MEMORY PLAN

- a) Select and open the Memory file you want to print,
- b) On the SMART menu click on “**Instrument**” and select “**Print**”,
- c) Configure the print settings and press “**OK**” to confirm.

HOW TO SAVE A MEMORY PLAN

- a) Open a Memory Plan file,
- b) On the SMART menu click on **"File"** and select **"Save As"**,
- c) Chose a location where you want to save the file, give it a name and press **"Save"**.

HOW TO DELETE A MEMORY PLAN


- a) Select and open the Mem. Plan file you want to delete,
- b) Press the **"Delete"** key in the **"Instrument File Manager"** window,
- c) The file will also be deleted from the measurement instrument.



1.6 INSTRUMENT FILE MANAGER (standard channel plan management)

This function allows you to transfer and manage the Channel Plan on a PC so that it can be modified and printed.

SIMPLIFIED PROCEDURE

CHANNEL PLAN MANAGEMENT

1. Carry out all the necessary connections (See paragraph 1.0)
2. Click on  (See instrument bar description)
3. Wait for the complete file list to download on your instrument
4. Open the Ch. Plan folder
5. Select the file you want to open
6. Select one of the following options:
 - Modify a Channel Plan
 - Download a Channel Plan from a PC to your meter

 - Print a Channel Plan by pressing  on the SMART icon menu
 - Save a Channel Plan by pressing  on SMART icon menu
 - Delete a Channel Plan from the “**Instrument File Manager**”

DETAILED PROCEDURE

HOW TO TRANSFER A CHANNEL PLAN FROM YOUR METER TO A PC

- a) Connect your instrument to a PC as described in paragraph 1.0,
- b) On the SMART menu click on “**Instrument**” and select “**Instrument File Manager**”,
- c) Wait for the file list of files to be uploaded to the PC,
- d) The “**Instrument File Manager**” window will appear on your screen , open the wanted **Ch. Plan** folder by clicking twice,
- e) All Channel Plan files will be listed.

HOW TO CHANGE AN EXISTING CHANNEL

- a) Select and open the Channel file you want to edit,
- b) Click twice on the line relative to the channel you want to edit,
- c) The program opens a window where it is possible to modify all the tuning parameters.

HOW TO ADD A CHANNEL

- a) Using the right key on the mouse, click on the line to be modified and select “**Add**”,
- b) A window will open where it is possible to set the new channel’s tuning parameters ,
- c) Press “**Ok**” to confirm the addition of a new channel.

HOW TO TRANSFER A CHANNEL PLAN FROM THE PC TO YOUR INSTRUMENT

- a) Once the editing is finished, click on the “**Instrument –PC**” key in the **CH. PLAN** properties section (to the right of the screen) to transfer the channel plan from the PC to your instrument,
- b) The channel plan will be loaded to your instrument.

HOW TO PRINT A CHANNEL PLAN

- a) Select and open the Channel file you want to print,
- b) On the SMART menu click on “**Instrument**” and select “**Print**”,
- c) Configure the print settings and press “**OK**”

HOW TO SAVE A CHANNEL PLAN

- a) Open a Memory Plan file,
- b) On the SMART menu click on "**File**" and select "**Save As**",
- c) Chose a location where you want to save the file, give it a name and press "**Save**".

HOW TO DELETE A CHANNEL PLAN

- a) Open a plan folder,
- b) Select and open the **Ch. Plan** you want to delete,
- c) Press the "**Delete**" key in the "**Instrument File Manager**" window,
- d) The file will also be deleted from the measurement instrument.

WARNINGS

We strongly suggest NOT to cancel the Standard Canalization Plans (i.e. Europe) because a memory plan based on a deleted canalization will be permanently altered.