

Pro

Series



raditeq

Product Manual

RadiCentre®

Modular Test System



Models:

CTR1009B - CTR1004B

www.raditeq.com



RadiCentre® product manual

This product manual pertains to the RadiCentre® system.

Models: CTR2008U | CTR1009B | CTR1004B | CTR1004B#020 | CTR1009B#020 **Made by Raditeq.**

Read this manual carefully before operating the product and make sure all the safety instructions are strictly followed.

For your convenience, a Quick Start Guide has been added to this product. This Quick Start Guide contains the basic start-up steps and the safety warnings.

For all specifications of this specific product, please refer to the data sheet of the product which can be found at www.raditeq.com

Please keep this manual close at hand when you operate your new Raditeq product(s).

Please contact your local reseller if you have any questions.

Frequently asked Questions (FAQ)

For the FAQ regarding this product please refer to <https://www.raditeq.com/faq/>

Supplier Information

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WARNINGS & PRECAUTIONS



Read the contents of this product manual carefully and become familiar with the safety markings, the product instructions and the handling of the system. Please refer to the applicable product manual(s) for further information regarding the operation and control of the product(s).



This product requires a protective earth connection. The mains power source for the equipment must supply an uninterrupted safety ground to the IEC input connector(s).



To make Raditeq's product as safe as possible, all devices fitted inside a RadiCentre® must comply to the safety interlock system of the RadiCentre®. all Raditeq Plug-in cards are designed to work with the interlock fitted on all RadiCentre® systems.



Only Raditeq qualified maintenance personnel is allowed to perform maintenance and/or repair service on the equipment.



This product® contains materials that can be recycled and reused to minimize material waste. At the 'end-of-life', specialized companies can dismantle the discarded system to collect the reusable and recyclable materials. If your product is at its 'end-of-life', please return it to your local reseller or to Raditeq for recycling.

WARNINGS & PRECAUTIONS



Please make sure that (at least) one slot of 1U height is kept empty below the RadiCentre®, to ensure enough cooling of the system through the bottom air inlets of the cabinet. The temperature of the bottom inlet cooling air must not exceed +45°C.



Position the product in such a fashion that power cables are easily accessible or connect the equipment to a mains network that can be easily disconnected from the mains.



For cleaning, use a clean, dry cloth (or a damp cloth where needed) and wipe the surface of equipment.



This product contains no hazardous substances as described in the RoHS Directive (2011/65/EU).



This product contains embedded software, which is field upgradeable from the RadiCentre® using the USB-A connection port on the backside panel of the RadiCentre®. For more information about updating your Raditeq plug-in card, please read the RadiCentre® manual.



Introduction

Product Introduction

EMC test systems can vary, from simple systems with one or two instruments, to complex installations with several integrated measurement instruments. Often even turntables and antennas can be controlled. To enable fully automated testing, these devices, as well as the connections between amplifiers, power meters, antennas and measurement receivers, need to be effectively controlled in an automated manner.

With the introduction of the RadiCentre®, cost effective, fully automated testing has finally become a reality. The RadiCentre® is designed for flexible configuration of an EMC test facility and contains up to seven independent slots that can contain any combination of different available plug-in cards. These cards determine the test facilities and are controlled through the RadiCentre®, possibly in combination with the RadiMation® software.

All plug-in cards are controlled via front-panel touchscreen on the RadiCentre® or can be addressed by the available interface ports; USB or LAN (GPIB optional) in combination with RadiMation® EMC test software (not standard included, but offered as separate product), or any other software package using the command set as defined in this programming section of this manual.

Related products

[RadiMation® Automated EMC/RF Test Software](#)



RadiMation® is the EMC software package from Raditeq. RadiMation is used for remote control and automated RF and EMC testing. In combination with the RadiCentre® the software really shines brightest and enables the user fully automated and effective EMC and RF testing. Plug-in cards and modules are sold separately.

[RadiField® Electric field generator](#)



The patented RadiField® Triple A is no less than a revolution in EMC immunity testing. A complete paradigm shift involves a combination of high-level integration and a field combining technique, making several discrete components like combiner, coupler, power meters and cabling superfluous. This product is sold separately.



[RadiSense® 10 Electric field probe](#)

The RadiSense® 10 Electric field probe is currently the most accurate electric field probe available on the market. This probe operated from the RadiCentre® can measure up to 10 GHz.



RadiGen® RF signal generators

An important part of an EMC immunity test system is the RF signal generator, that provides the carrier signal at a certain frequency with different kinds of modulation. This carrier signal should be fast, accurate and without unwanted glitches or overshoot. The RadiGen® range of EMC/RF signal generators are the perfect solution for these applications.



RadiPower® RF power meters

The RadiPower is a RF power head designed for CW power measurements during EMC testing. A range of power heads is available to measure RF power from 4 kHz up to 18 GHz. The RadiPower is an affordable, fast and accurate RF power head with USB interface for easy connection.



RadiSwitch® Coaxial switch cards

The RadiSwitch is a series of RF switching plug-in cards for fully automated EMC testing. EMC test systems are often complex installations with many different test and measurement instrumentation. To enable full automated testing, all measuring instruments as well as the connections made between amplifiers, power meters, antennae and EMI receivers should be selected in an automated manner. The RadiSwitch is especially designed to switch RF signals between multiple instruments during EMC measurements.



The RadiCentre®

Product characteristics

Flexible

The RadiCentre® modular test system offers efficient and comprehensive testing capabilities through its ability to be fully automated. It features up to eight plug-in card slots that are highly adaptable and configurable, enabling users to incorporate a variety of Raditeq plug-in card instruments to meet their specific needs. The modular design allows for flexible combinations of plug-in card instruments, facilitating multifunctional testing for a range of applications.

Easy to Use & Maintain

Upon inserting each plug-in card into the backplane and restarting the RadiCentre®, the system automatically recognizes and initializes the card, making it readily available for use. With the aid of the TFT touchscreen on models CTR1009B and CTR1004B, users can configure and regulate the functionality of each plug-in card instrument. The system can be conveniently expanded by adding more plug-in card instruments, and its internal firmware can be updated on-site via a USB stick, resulting in easy maintenance and minimal downtime.

Space Efficient

The RadiCentre® allows the user to configure up to seven plug-in card instruments into a mainframe of just three units height (models CTR1009B and CTR1004B). In comparison to a conventional setup a controllers, probes, switches and other equipment require one or two slots in a 19" cabinet. subsequently the RadiCentre® is very space efficient way to configure and control your EMC test setup.

Linux® Based & Software Upgrades

Equipped with a robust embedded processor, the RadiCentre® system efficiently manages all plug-in cards and facilitates communication with the user or an external computer. The system's operating environment is founded on the Linux® platform, delivering exceptional stability, rapid start-up, and high performance. The embedded software is securely stored in flash, allowing for seamless upgrades of the system's functionality and future versions.

Components

The RadiCentre® models: CTR1009B | CTR1009B#020 | CTR1004B | CTR1004B#020 are delivered with the following items:

- Power supply plug-in card (PSU1250A)
- Processor plug-in card (PRO2001A or PRO2001B)
- USB cable
- Interlock connector: ¼" stereo jack
- Mains power lead
- Set of 19" mounting brackets
- USB stick containing the (digital) user manual and quick start guide

RadiCentre® Pro Models

RadiCentre® - CTR1009B

The RadiCentre® Pro has 9 slots for plug-in cards. Two slots are used for the CPU and PSU plug-in cards, which means that it provides free space for seven plug-in cards in a desktop model with touchscreen.

This model is 19-inch rack mountable using the standard delivered adapters.



RadiCentre® - CTR1004B

The RadiCentre® has 4 slots for plug-in cards. Two slots are used for the CPU and PSU plug-in cards, which means that it provides free space for two plug-in cards in a desktop model with touch-screen.

This model is 19-inch rack mountable using the standard delivered adapters.



Detailed information

The details of these models will be provided in the following chapters. Please read the chapter(s) applicable to your RadiCentre® model(s).



RadiCentre® : models CTR1009B & CTR1004B

The RadiCentre® Pro (7-slot, CTR1009B) and RadiCentre® (2-slot, CTR1004B) modular test systems are both 3U high and are standard delivered for usage as a desktop model with mounting (tilt) feet. The unit can also be fitted into a 19" rack when using the 19" brackets that are standard supplied.

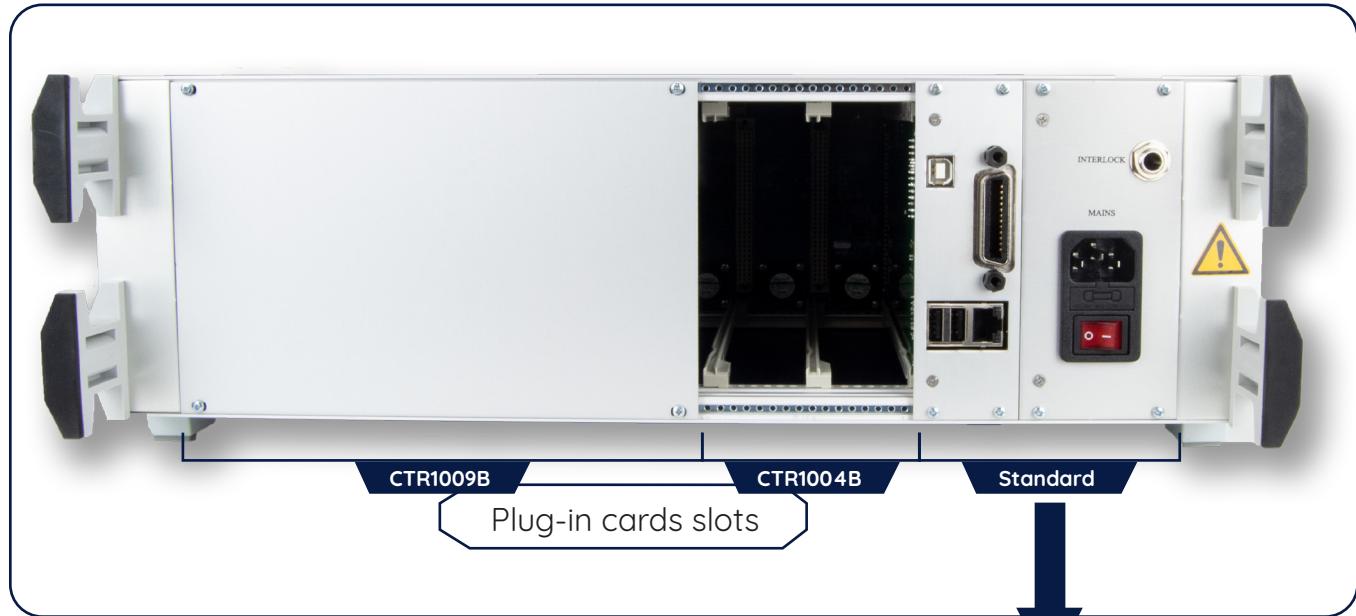
The only difference between the RadiCentre® Pro and the RadiCentre® models is the number of slots. The RadiCentre® Pro has in total nine (9) slots and the RadiCentre® has four (4) slots. Two dedicated slots are used for the power supply (PSU) plug-in card and the main processor (CPU) plug-in card. This means that each model has respectively seven (7) and two (2) free available slots for custom selectable plug-in cards.

The slots are numbered from left to right (looking from the back of the system) and are shown on the touchscreen display. For the RadiCentre® Pro (9-slots) this means that slots numbered 1-7 are available for plug-in card instruments and slots 8-9 are dedicated for the CPU and PSU plug-in cards. For the RadiCentre® (4-slots) this means that slots 1-2 are available and slots 3-4 are dedicated.

The dedicated slots are used for the embedded Linux™ computer (CPU) plug-in card and power supply (PSU) plug-in card. Be noted that these plug-in cards cannot be placed in any other slot. The power supply card has a connection for an external interlock. The processor card has different control interfaces such as Ethernet (LAN), USB and GPIB (optional) to control the RadiCentre® from a computer. Both models can be controlled manually through the touch-screen display on the front panel.



RadiCentre® - Models CTR1009B & CTR1004B back panel



Safety interlock connection. The interlock connector provides two floating contacts which require shorting for the system to operate. Use the supplied connector (6.3mm 1/4" stereo jack) to wire to the emergency switch of your site. Connect both terminals.

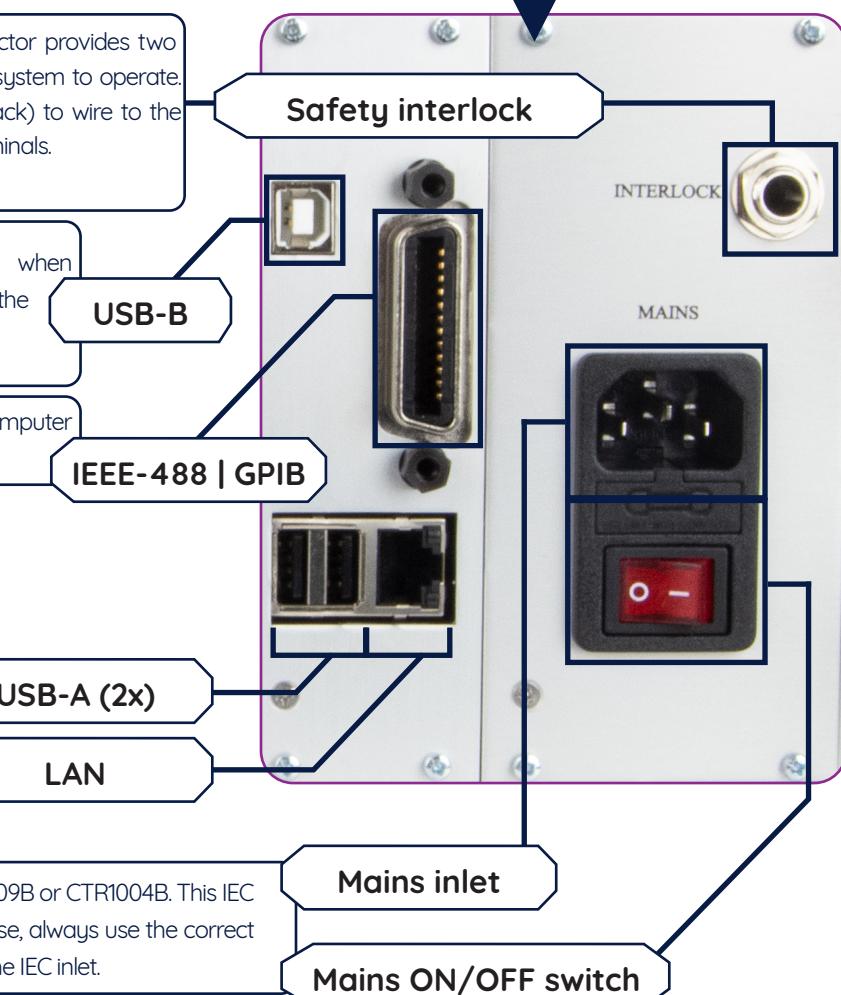
The RadiCentre® can act as a USB-device when connected to a computer. After installation of the device driver, a virtual com-port will be present.

IEEE-488.2 interface bus to interface with a computer (optional).

USB device connection. Can be used to update the RadiCentre® software using a USB memory stick.

Local Area Network connection.

Used to connect the mains power with the CTR1009B or CTR1004B. This IEC inlet holds a primary fuse. When replacing the fuse, always use the correct fuse. The mains power switch is also located on the IEC inlet.





RadiCentre® communication port settings

The RadiCentre® can be software controlled using different PC interface ports. The default settings for the communication ports are as follows:

RadiCentre® model	USB virtual com port (VCP)
CTR1009B (Pro)	115200,8,N,1
CTR1004B	115200,8,N,1

RadiCentre® (Pro) - Models CTR1009B / CTR1004B - front panel

The RadiCentre® front panel contains a 7" widescreen color TFT touchscreen that is used to visualize and control the status of all the installed plug-in cards.

Next to the screen are four LED indicators that show the system status:

The “STANDBY” LED

The “STANDBY” LED appears next to the lower left side of the screen and lights up while the system is in standby mode. The mains power switch on the PSU plug-in card should be in the ‘ON’ position.

The “POWER ON” LED

The “POWER ON” LED appears next to the upper right side of the screen and lights up when the RadiCentre® system is switched ‘ON’.

The “LASER ON” LED

The “LASER ON” LED appears next to the lower left side of the screen and lights up when the LASER of (one or more of) the laser powered plug-in cards (such as the RadiSupply® for the RadiSense®) is active.

WARNING! For safety reasons, never disconnect the fiber optic cables when one of the LASERS is switched on.

The “INTERLOCK” LED

The “INTERLOCK” LED appears next to the lower left side of the screen and lights up if the external interlock is open, or when an interlock error occurs in one of the plug-in cards.

The Installation

RadiCentre® hardware configuration

The hardware configuration is carried out by the following steps:

1. Make sure that all the connections to the plug-in cards are made as described in the relevant manuals for these plug-in cards (manuals are found on: www.raditeq.com/product-manuals).
2. Make sure that the interlock connection of the RadiCentre® system is closed.
3. Depending on your model, plug the mains cord into the mains inlet of the RadiCentre® system. Switch the main power switch, on the mains inlet, to the 'ON' position.
4. For the two and seven slot models, press (any point on) the front panel touchscreen to activate the RadiCentre®.

The RadiCentre® will automatically detect the installed plug-in cards and will display their controls on the display.

The system is now ready to be used.

The user can control the different plug-in cards through the touchscreen of the RadiCentre® system.

The main screen will display the slot locations and the plug-in cards located in these slots. These indications can be used to open the screens of the individual plug-in cards where the main parameters for these cards are visible.

REMARK - Please make sure that (at least) one slot of 1U height is kept empty above and below the RadiCentre® CTR1009B and CTR1004B models, to allow for sufficient cooling of the system through the bottom air inlets of the cabinet.



RadiMation® software

The RadiCentre® can be used to serve as a communication channel between Raditeq products and computer software like RadiMation®. This means that the RadiCentre® can function on its own but can be controlled by software. The RadiCentre® itself does not require any software to operate and can be fully controlled manually. If you want to configure Raditeq products with RadiMation® please consult the specific product manual for more instructions.

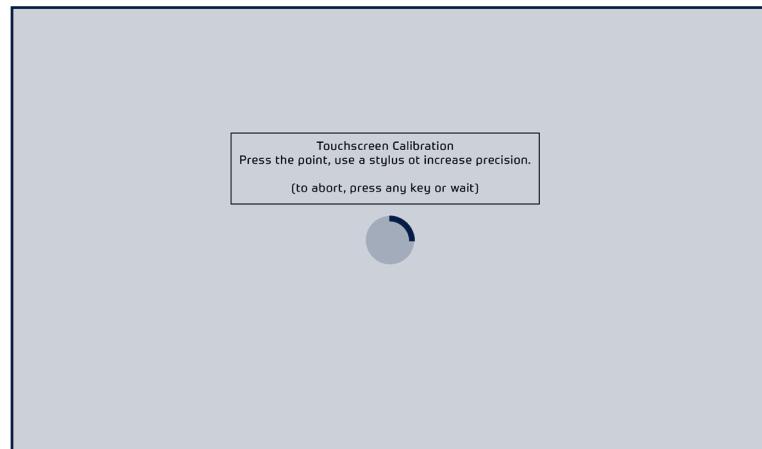
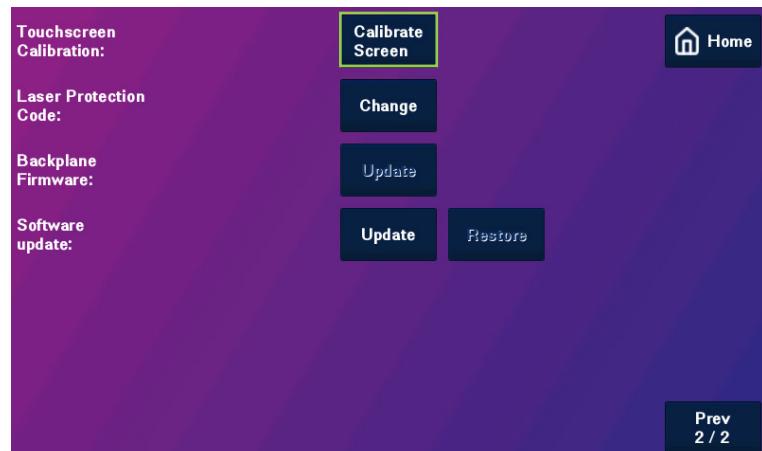
RadiCentre® Maintenance

Screen calibration

The RadiCentre® (Pro) can be controlled through the front touch screen. This screen can be calibrated to ensure the best possible quality of use. The RadiCentre® (Pro) is delivered with factory calibrated touch screen. **Therefore only calibrate the screen for maintenance.**

Follow the following instructions to calibrate the touch screen:

1. Press 'Config' in the main screen to enter the main configuration screen.
2. Press 'Calibrate Screen' to enter the screen calibration window.
3. The screen calibration window contains four points. Touch the area with the red pulsating circles to calibrate the screen. Repeat this action for each of the four points. After an area has been pressed, the circle will turn black.



Remote Screen calibration

If the RadiCentre® touchscreen becomes unresponsive, the screen can be recalibrated using a terminal program such as ****PuTTY****. Two connection methods are available:

USB Connection:

Connect to the unit via USB using the assigned COM port. Use the following communication settings:

- Baud rate: 115200
- Data bits: 8
- Stop bits: 1
- Parity: None
- Flow control: None

LAN Connection

Establish a raw TCP connection to the unit's IP address on ****port 27531****.

Once connected through either method, send the following command to initiate screen calibration:

'calibrate'

The device will then guide you through the touchscreen calibration process.



Firmware update procedure

Raditeq provides the embedded software for the plug-in cards. When a new version of this firmware is released, users can update the firmware of the RadiCentre® and/or each individual plug-in card themselves by using a USB memory stick.

Follow the instructions below to update the firmware of any plug-in card or the RadiCentre®:

1. Download the latest firmware of the device to be upgraded from our website: www.raditeq.com
2. Store the file(s) onto a USB memory stick with sufficient free space
3. Insert the USB memory stick containing the downloaded firmware into one of the USB ports at the backside of the RadiCentre®
4. Press the slot number of the plug-in card to open the slot configuration screen. This button can be found in the main screen, next to the status button of that plug-in card.
5. The slot configuration screen will display the actual software version of the plug-in card. If a newer software version is available, the 'Update Embedded Software' button will be enabled. (This button is always present in the screen, but is disabled if there is no new version present on the USB stick.)
6. Press 'Update Embedded Software' to open the software update screen. A screen dedicated to the software update will appear.
7. Read and follow the instructions on this screen carefully. Press 'Program' to update the software, or 'Cancel' to cancel or postpone the update. The update progress will be displayed on the screen.

WARNING! – Do not turn off or interrupt the device during the programming process.

In some situations it is not possible to restore the software to the previous version (downgrade). If this is the case a notification will be displayed on the update screen.

Manual control of the RadiCentre®

Manual control of the RadiCentre® (Pro) is performed through the touchscreen on the front panel. The following chapters will describe the RadiCentre® user interface.

Please note that other firmware versions may look different and may support other functions.

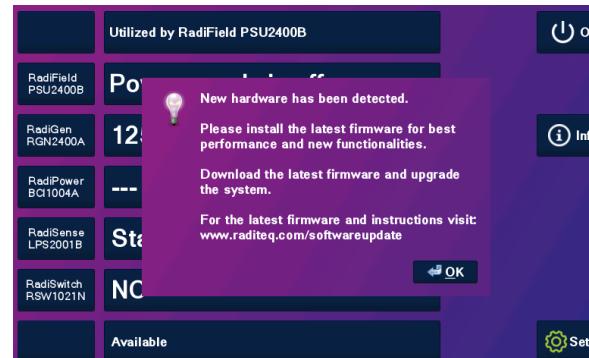
Power 'ON' the RadiCentre®

The RadiCentre® (Pro) models can be manually operated from the front panel touch-screen. This includes the toggling from 'ON' and 'OFF'.

When the AC mains cable of the RadiCentre® is correctly plugged into the mains power socket and the mains switch is switched to 'ON', simply tap the touch-screen on any position to power 'ON' the RadiCentre®.

RadiCentre® Start up & New hardware

After power 'ON' the RadiCentre® internal operating system will be loaded and started. (taking about 20 seconds). When the RadiCentre® is turned on and started up it can detect if new hardware has been installed into one of the RadiCentre® slots. The RadiCentre® will give the instruction to install new firmware to support the new hardware. The Firmware can be downloaded from the raditeq website at: www.raditeq.com/softwareupdate



Information screen

When the Info button is tapped the 'Information screen' will be shown. This screen is displayed below and contains the following information:

- Overview of all detected plug-in cards
- Firmware version
- Currently configured IEEE address (if applicable)





Main screen

On this page the ‘main’ screen of the RadiCentre® (Pro) is shown. This screen provides the user with an overview of the main parameters for each installed plug-in card, through the slots numbers and the ‘status’ buttons. These can, for example, show the actual field strength for a RadiSense® E-field probe or the positions of the different switches in case of a RadiSwitch® coaxial switch plug-in card.

General purpose buttons

A number of general purpose buttons are present at the right side of the ‘main’ screen. The general purpose buttons are present in every window of the RadiCentre® (when relevant).

The general purpose buttons and their functions are:

- **‘Home’ button** - Pressing this button returns the user to the ‘main’ screen.



- **‘Info.’ Button** - Pressing this button will show the user the RadiCentre® information window. In this window, the software and hardware versions of the RadiCentre® are displayed.



- **‘Setup button** - Pressing this button will show to the RadiCentre® configuration window. In this window, the IEEE address (if applicable) of the RadiCentre® can be changed.

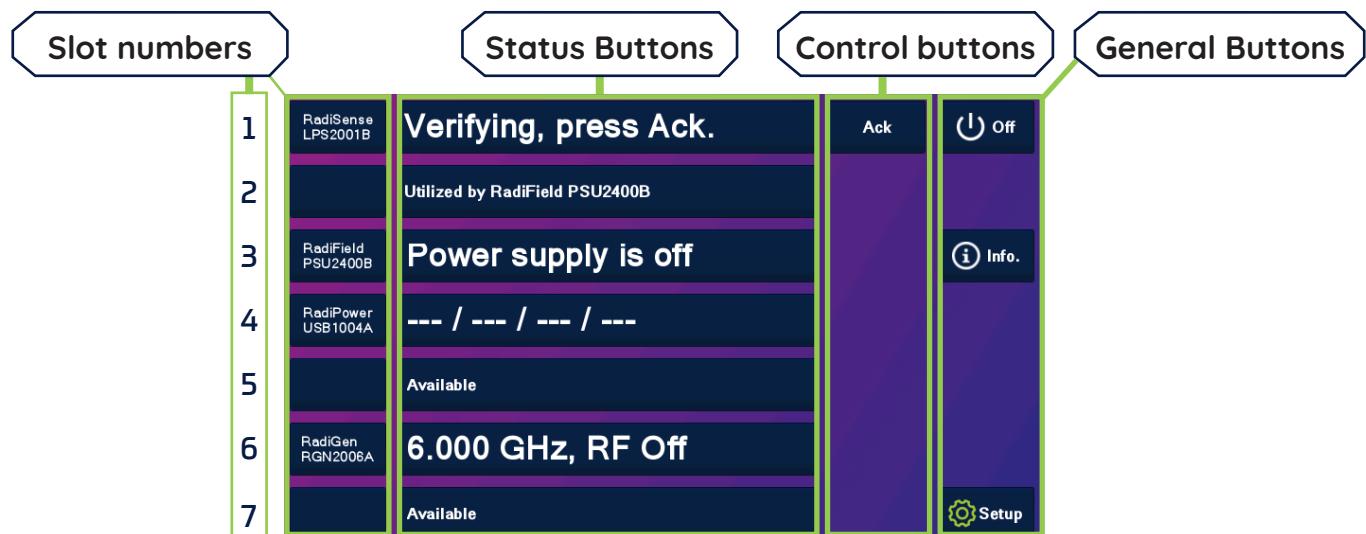


Slot numbers & ‘status’ button

The numbers (1 to 7) at the left hand side of the ‘main’ screen indicate the available slot numbers of the system. If a card is present, the ‘status’ button will show information of that plug-in card. These indicate which cards are installed, and will allow the user to reach the dedicated ‘main status’ window. All relevant data and configuration will be shown for that specific plug-in card. If no card installed the ‘status’ button contains the text “Available”.

Control buttons

Relevant control buttons will appear at the right hand side of the screen. Depending on the card type, the buttons are used to start the plug-in card or to control its status. Please refer to the manual of the relevant card type for more information.



Device ID

In order to control a plug-in card in the RadiCentre® from a remote computer, the address (network or GPIB) of the RadiCentre® must be set correctly. In addition, each device in the RadiCentre® has its own unique number, corresponding with the slot number of the device. Look at the back panel of the RadiCentre® to determine the slot number of the device. When facing the back panel, the slots are numbered from left to right.

Device ID example

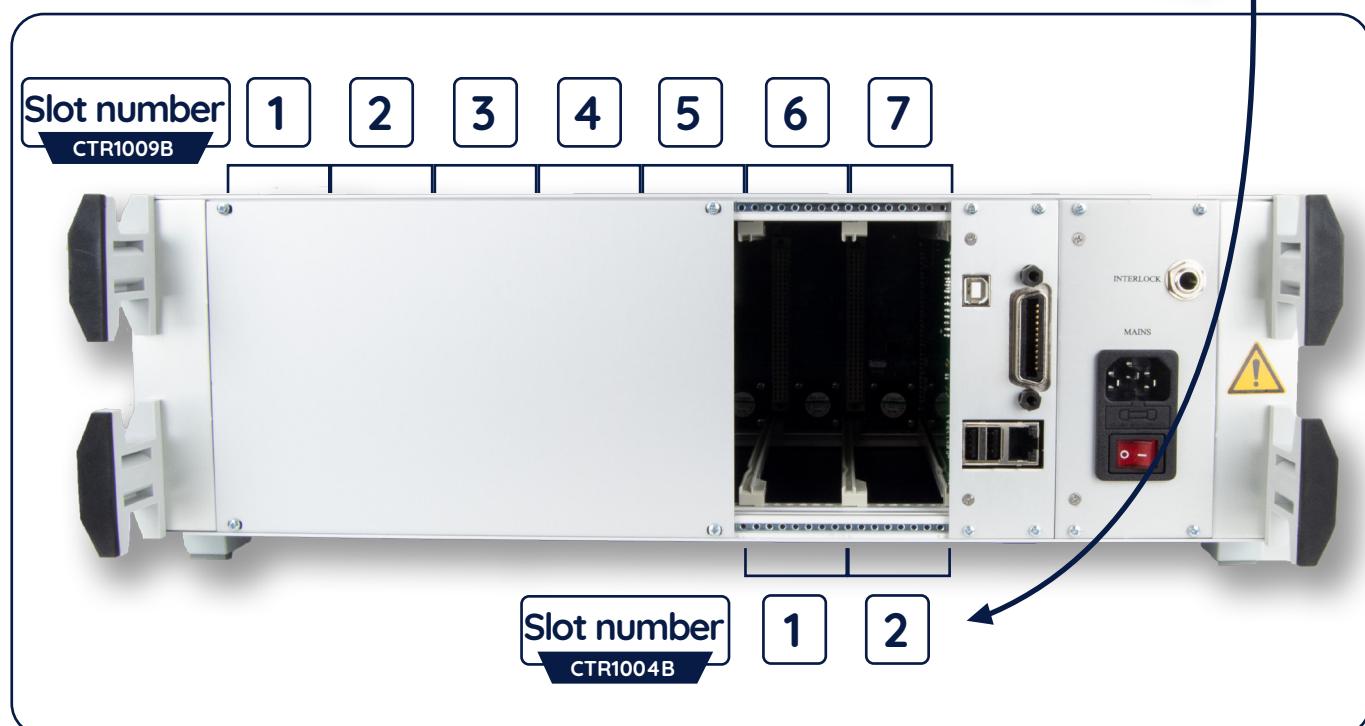
In this example the RadiCentre® (CTR1004B) is equipped with two separate plug-in cards.

The Device ID is therefore made up out of; first the slot number and secondly the device port (if applicable). In the picture below you can see how the slot numbers of the RadiCentre® are arranged.

- RadiSense® - LASER power supply
- RadiPower® - Power Meter command card with 4 USB ports.

For example, a RadiSense® plug-in card is inserted in slot one (1) of a RadiCentre® Pro to control the RadiSense® plug-in card it needs to be commanded by the ID number: **1**

The RadiPower® plug-in card model USB1004A has four (4) USB ports. When this plug-in card is inserted in slot two (2) of the RadiCentre® and the user wants to send a command to one of the four (4) USB RadiPower® USB power meters, each command needs to be addressed to the correct port as shown in the picture to the right:





Smart Buttons

When tapping on of the slot numbers you will be redirect into the manual settings of the device. On this screen up to six (6) smart buttons are displayed. These buttons show a short overview of the status buttons of the other plugged in Raditeq cards. when tapped the user is redirected to the chosen Radi-product.



Configuring plug-in card parameters

When the parameters of a single plug-in card have to be adjusted, simply click on the 'status' button of that card in the 'main' screen. A dedicated configuration screen (the control screen) for that card will appear, allowing the user to change all the parameters of the relevant card. In addition, the data of the selected card will be displayed in a large font, allowing the user to monitor the data from a greater distance.

Remote control of the RadiCentre® (Pro) (models CTR1009B / CTR1004B)

The RadiCentre® (Pro) can be remotely controlled through either custom made software or the RadiMation® EMC software package from Raditeq installed on a PC.

Because these models can hold several plug-in cards, devices ID's and command prefixes are used. The use of Device ID's is explained in the following chapter. The command prefixes can be found in the programming manual which is part of this manual.

Display update during remote control (Models CTR1009B / CTR1004B)

When the RadiCentre® is remotely controlled the display is not updated in real time. The current values are updated when requested by the external remote control software on the RadiCentre® display. The last values are shown until the new values are requested.

Warranty Conditions

Raditeq B.V. offers a standard warranty term of three (3) years on their products, calculated from the shipping date, under the condition that the product is registered on www.raditeq.com. For registration of the product, the customer should provide the product model, serial number and the responsible reseller (if applicable). If the product is not registered, a limited warranty term of one (1) year will be applicable.

Return Material Authorization (RMA) & Warranty repair

If a defect occurs to our product within the warranty term, a Return Material Authorization (RMA) 'Warranty Repair' request can be issued using the RMA link at www.raditeq.com/support. Upon receipt of the request, an RMA number will be provided. Please do not send the product without this RMA number! The defective product should be shipped to our service department at the following address:

Raditeq B.V. – Service Department
Vijzelmolenlaan 3
3447GX WOERDEN
The Netherlands

There will be no charge for repair services (materials or labour) within the (extended) warranty term.
These warranty terms are not applicable to:

- Normal wear and tear
- Fibre optic cables
- Products that have been improperly used
- Products that have been used outside their specified range
- Products that have been improperly installed and/or maintained
- Products that have been modified without approval of Raditeq
- Calibration and/or re-calibration of the product

Repair services on products that are not covered by the Raditeq warranty will be charged to the customer.

Repairs outside warranty

If a defect is not covered under warranty, an RMA fixed-repair can be ordered on the RMA link: www.raditeq.com/support If a re-calibration is needed after repair, this calibration should be ordered separately. The calibration will be performed at the ISO17025 accredited calibration laboratories of DARE!! Calibrations, based on the applicable service code / prices.

Warranty after repair

For repairs outside the original warranty period, a limited warranty of six months is applicable on the performed repair. Shipping conditions are the same as with repairs that are covered within the original warranty period.

Shipping

The customer will need to arrange shipping and cover for the costs (like e.g. transportation costs, duties, taxes) for sending the defect product to the service department of Raditeq in The Netherlands. Raditeq will arrange the courier and cover for the costs for the return shipment after repair.



EU Declaration of Conformity

We

Raditeq B.V.

of

Vijzelmolenlaan 3
NL-3447GX Woerden
The Netherlands

declare under our sole responsibility that the

Product: RadiCentre®
models: CTR1009B - CTR1009B#020 - CTR1004B - CTR1004B#020

are in accordance with the European directives:

EMC Directive 2014/30/EU

Low Voltage Directive 2014/35/EU

RoHS Directive: 2015/863/EU

per the provisions of the applicable requirements of the following harmonized standards:

Emission: EN 61326-1:2013, Class A1
Electrical equipment for measurement, control and laboratory use.

Immunity: EN 61326-1:2013, Industrial level, performance criteria A
Electrical equipment for measurement, control and laboratory use.

Safety: EN 61010-1:2010, Safety requirements for electrical equipment
for measurement, control, and laboratory use.

RoHs EN 63000:2018, Technical documentation for the assessment of electrical and electronic
products with respect to the restriction of hazardous substances.

The technical construction files are maintained at the address specified above.

Date of issue: 2026

Place of issue: Woerden, the Netherlands

Authorized by: P.W.J. Dijkstra

Title of authority: Director

Declaration of Conformity

In accordance with UK Government Guidance

1. Product Model / Type:

a. Product: The RadiCentre® - Modular Control/Test System
b. Model: CTR1009B - CTR1009B#020 - CTR1004B - CTR1004B#020
c. Batch/Serial: CTR1009B - CTR1004B
d. Specifications: 9-Inch device



2. Manufacturer:

a. Name: Raditeq B.V.
b. Address: Vijzelmolenlaan 3 | NL-3447GX Woerden | The Netherlands

3. This declaration is issued under the sole responsibility of the product manufacturer.

4. The object of the declaration described above is in conformity with the relevant UK Statutory Instruments and their amendments:

2008	No 1597	The supply of Machinery (Safety) Regulations 2008
2016	No 1101	The Electrical Equipment Safety Regulations 2016
2016	No 1091	The Electromagnetic Compatibility Regulations 2016
2012	No 3032	The Restriction of the Use of Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

5. We hereby declare that the product described above, to which this declaration of conformity refers to, is in conformity with the essential requirements of the following standards:

Reference & Date	Title
2014/30/EU	EMC Directive
2014/35/EU	Low Voltage Directive
2015/863/EU	RoHS Directive

6. Additional Information:

The technical documentation for the machinery is available from:

Name:	Raditeq B.V.
Address:	Vijzelmolenlaan 3 3447 GX Woerden The Netherlands
Place of issue:	Woerden, The Netherlands
Date of Issue:	01/03/2023
Name:	P.W.J. Dijkstra
Function:	Director



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