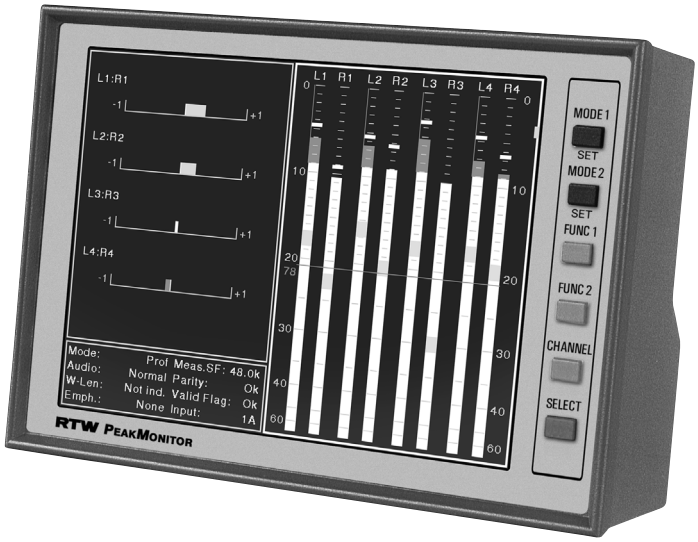


Vorläufige Anleitung/
Preliminary Manual

Bedienungsanleitung/Operating Manual

PeakMonitor 10689

RTW

Bedienungsanleitung für/Operating Manual for

RTW PeakMonitor 10689

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WEEE-Reg.-Nr./Reg.-no.: DE 90666819
Kategorie/Category: 9
Geräteart/Device type: Diese Geräte erfüllen als Überwachungs- und Kontrollinstrumente in der Kategorie 9, Anhang 1B, die Vorschriften des Elektro- und Elektronikgesetzes vom 16. März 2005 und der RoHS-Directive 2002/95/EC.
These instruments comply with and fall under category 9 Monitoring and control equipment of Annex 1B of the RoHS-Directive 2002/95/EC.

Hinweis:
Die Abbildungen in dieser Bedienungsanleitung illustrieren die Beschreibung der Funktionen und Anzeigen dieses Instrumentes. Es können daher und aufgrund der ständigen Weiterentwicklung des Gerätes kleinere Abweichungen zwischen den Abbildungen und den tatsächlichen Gegebenheiten, insbesondere bei den Bildschirmanzeigen, vorkommen.

Note:
The photos and graphics in this manual are provided to illustrate the functions and displays of the instrument and make the descriptions and instructions more comprehensible. Ongoing product development may result in minor design changes, so that your version of the instrument may look slightly different from the illustrations. This applies in particular to the screen displays.

CE

Inhaltsverzeichnis/Table of Contents

Inhaltsverzeichnis/Table of Contents 3

E 1 Before you begin 5
- **E 1.1 Preface** 5
- **E 1.2 About this manual** 6
- **E 1.3 Safety symbols and terms** 7
- **E 1.4 General Safety Summary** 7
- **E 1.5 Package Contents** 8

E 2 Key Features 9
- Multi Instrument 1: 10
- Multi Instrument 2: 10
- PPM section: 10

E 3 Quick Start 11
- **E 3.1 System Startup** 11
- **E 3.2 Switching display modes with MODE 1 and MODE 2** 11
  - Toggle function 11
  - Button functions and captions 12
- **E 3.3 Menu Access** 12
- **E 3.4 Recalling Factory Presets** 14
- **E 3.5 Saving and Renaming Presets** 14
- **E 3.6 Factory Presets list** 15
- **E 3.7 Defining Power On Mode** 15
- **E 3.8 Defining Toggle Options for Multi Instrument 1** 16

E 7 Installation 17
- **E 7.1 Safety information** 17
- **E 7.2 First time operation** 18
- **E 7.3 Connection** 19
  - E 7.3.1 Connecting Input and Output: 19
  - E 7.3.2 Connecting Remote: External function control connection 19
  - E 7.3.3 Connecting VGA: VGA Monitor connection 20
  - E 7.3.4 Connecting 24 V DC: Power Supply 20

8. Zeichnungen/Drawings 21
- **8.1. Abmessungen/Mechanical Outlines 10689** 21
- **8.2. Zubehörkombination/Accessory combination** 22

Appendix A: Specifications 23

Anhang C:/Appendix C: Index 27

E 1 Before you begin

E 1.1 Preface

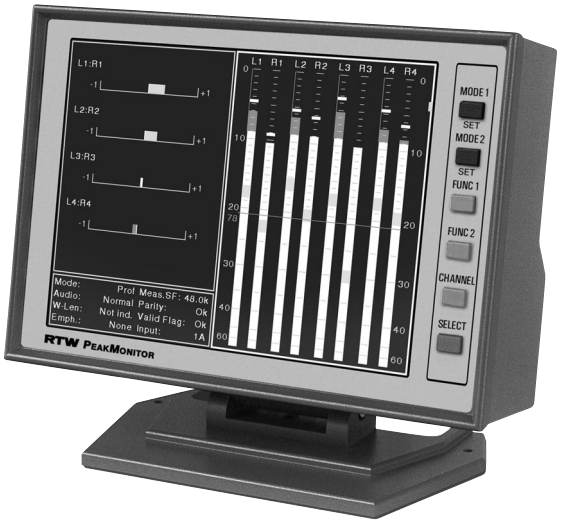


Fig. E 1-1: PeakMonitor 10689-PLUS

The PeakMonitor 10689 measures and visualizes digital audio signals from up to eight channels with a bright color TFT display, providing extensive information about the characteristics of the checked signal source for sound engineers. Basic operations and concepts are presented in this manual in detail.

The multifunctional unit features the following display modes: Peak Program Meter (plus Loudness/SPL display), Multi-Correlator, Input Channel Status Display, Status Display for AES-3 signals and Stop Watch. The desktop unit comes with digital inputs for eight channels and parallel outputs for daisy chaining.
Thus the PeakMonitor 10689 is the perfect choice for visualizing digital audio stereo and multichannel formats in several professional audio applications like broadcast, pre and post production environments and music production.

The measuring functions selected by the user are presented in three separate display sections on the built-in VGA color display. Using the VGA output they can as well be displayed on any external VGA computer display. The right display section always shows a PPM display with up to 8 high resolution bargraph instruments while the other two sections can be programmed to show individual instrument functions at the same time.

The internal menu system contains in-depth configuration options for all display functions. For example a choice of PPM standards, headroom, color schemes as well as over- and mute-displays can be chosen for the bargraph instruments.

Individual setups for different applications can be stored as user presets inside the unit and two of these are accessible directly from normal operation with a single button.

E 1.2 About this manual

This manual is the operating handbook for the PeakMonitor 10689. Features and functionality of the instrument are described in 8 chapters containing the following topics:

- Chapter 1: Before you begin
  Safety information, package contents etc.
- Chapter 2: Key Features
  A short summary of basic instrument display modes and features
- Chapter 3: Quick Start
  Startup information on recalling and saving presets, accessing display modes, navigating the menu, etc.
- Chapter 4: Display Modes
  Explanation of all available display modes
- Chapter 5: Function Keys
  Using the 6 function keys of the instrument
- Chapter 6: Menu
  Menu structure overview and description of all menu options
- Chapter 7: Installation
  Information about connections and remote control and important additional information about safety
- Chapter 8: Drawings
  Mechanical Dimensions, accessory combination and spare parts
- Appendix A: Specifications
  A summary of the main technical data
- Appendix B: Declaration of Confirmity

Symbols used in this manual:

This symbol draws your attention to related topics.

→ Press the button/key or select the menu item …

Warning! (see Safety Symbols description on the next page)

Attention! (see the next page)

Functional earth terminal (see the next page)

Protective earth terminal (see the next page)

E 1.3 Safety symbols and terms

The following symbols may be marked on the panels or covers of equipment or modules and are used in this manual:



WARNING! - This symbol alerts you to a potentially hazardous condition, such as the presence of dangerous voltage that could pose a risk of electrical shock. Refer to the accompanying Warning Label or Tag, and exercise extreme caution.



ATTENTION! - This symbol allerts you to important operating considerations or a potential operating condition that could damage equipment. If you see this marked on equipment, consult the operating manual for precautionary instructions.



FUNCTIONAL EARTH TERMINAL - This symbol marks a terminal that is electrically connected to a reference point and is intended to be earthed for any functional purpose other than safety.



PROTECTIVE EARTH TERMINAL - This symbol marks a terminal that is bonded to conductive parts of the instrument. Confirm that this terminal is connected to an external protective earthing system.

Please note the General Safety Summary and the hints in the chapters.

E 1.4 General Safety Summary

Before installing and configuring the PeakMonitor 10689 please study the following safety information carefully and observe all the recommendations:



To prevent possible electrical shock, fire, injuries and malfunctions:

- Never open the housing.
- Never insert your fingers or any other objects into the housing.
- Never expose the unit to moisture and do not install it in a dusty environment.
- Never cover the unit or place any objects on it.
- Never operate the unit without adequate ventilation.
- Never place anything containing liquids on the unit.
- Turn off and disconnect the power supply immediately if the unit produces unusual smells, noises or smoke, or if foreign substances (e. g. liquids) or foreign objects enter the unit.



There are no user-serviceable parts in the PeakMonitor 10689. Please always have any necessary servicing performed by a properly qualified technician. Never remove any parts from the unit and do not make any modifications to the unit without the express written consent of RTW. Modifications can cause both safety hazards and affect the unit's EMI-CE conformity.



The PeakMonitor 10689 is designed for indoor use only and may only be operated with a power supply unit provided for it.

E 1.5 Package Contents

Model 10689:

- PeakMonitor (table-top unit)
- Counter plug for power supply
- This manual

E 2 Key Features

The PeakMonitor 10689 features several display modes for analyzing stereo or multichannel audio signals in various ways. The display is divided into three sections to show three different instruments in parallel.

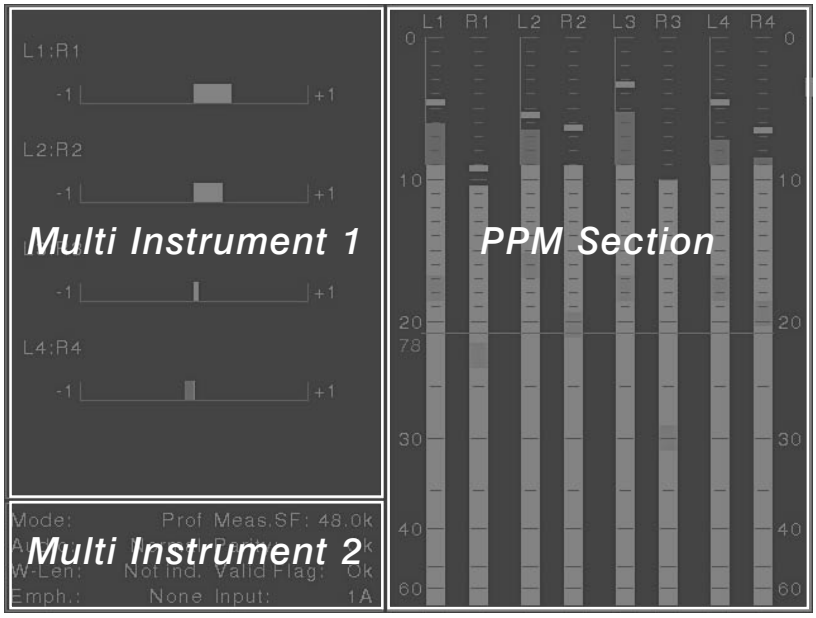


Fig. E 2-1: The display elements of the PeakMonitor 10689

The topmost left display section (**Multi Instrument 1**, see Fig. E 2-1) is used for graphical display modes like Multi-Correlator for up to 4 Stereo channel pairs or Channel Status Display which shows AES status data of the digital input signals in text format.

The smaller display section on the left (**Multi Instrument 2**, see Fig. E 2-1) is used for text-based information display like status summary or a Stopwatch.

The right display section (**PPM section**, see Fig. E 2-1) is always used for PPM bargraphs showing the up to eight input levels.

Note:
A short description and examples for the displays of the instruments follow on the next pages. For more detailed information about the Display Modes of the PeakMonitor 10689 and how to get there please refer to Chapter 4: Display Modes.

See Chapter E 4 for details

Multi Instrument 1:

- **Multi-Correlator**
  Display mode with up to four phase meters for up to 4 stereo channel pairs. The upper phase meter here corresponds to the bargraphs of the stereo channel pair placed on the left side in the PPM Section.

- **Channel Status Display**
  An integrated Status Monitor for AES-3 signals displays all channel status data for the digital input signals in AES-3 format.

Multi Instrument 2:

- **AES/EBU Status**
  A summary of the most relevant AES status data can be chosen for the Multi Instrument 2. The measured sample rate is displayed in this mode as well.

- **Stopwatch**
  The stopwatch shown in this display mode includes a hold function for reading out intermediate results.

PPM section:

- **Multi-Standard digital Peak Meter**
  High resolution multi-standard peak level bargraphs with peak hold and loudness indicator for up to 8 channels. Stereo channel pairs normally are marked with a Spot Correlator on the lower left side of or between the bargraphs.
  This mode is always available – independently from the display modes chosen for the two Multi Instruments on the left.

E 3 Quick Start

E 3.1 System Startup

At first, please connect the digital audio input signals, the external VGA display (if required) and the power supply to the unit. Please refer to Chapter E 7 (Installation) for details about connecting the unit and pinouts.

Note:
Please refer to Chapter E 3.7 for information about how to define the preset loaded at power on.

See Chapter E 3.7

E 3.2 Switching display modes with MODE 1 and MODE 2

All configuration data and display modes of the PeakMonitor 10689 are stored in 8 factory presets and 8 user presets (see Chapter E 3.4 and E 3.5). Using the buttons **MODE 1** and **MODE 2** it is easy to switch between two of these presets without having to use the menu. To do this it is necessary to define the two presets that should be called up with **MODE 1** and **MODE 2** buttons first (see Chapter E 3.4).

See Chapter E 3.4 and E 3.5

See Chapter E 3.4

A small **green spot** at the right edge of the display shows whether **MODE 1** or **MODE 2** is currently selected. To switch over to the other mode simply press the **MODE** button not marked. The preset defined for this mode will be loaded.

Toggle function
Besides using **MODE 1** and **MODE 2** there is a second option for easy switching between different display modes. Repeatedly pressing the same **MODE** key cycles the Multi Instrument 1 through all display modes defined in the preset used for this mode. Please refer to Chapter E 3.8 for details about how to define the display modes accessible through this toggle function for each preset.

See Chapter E 3.8

Note:
The toggle function is only available if there are display modes defined for toggle mode in the loaded preset. To keep it simple for first-time users the factory presets do not contain such toggle definitions – so repeatedly pressing the same **MODE** keys will have no effect as long as a factory preset (F1 - F8) is loaded.

Note:
Pressing the buttons **MODE 1** or **MODE 2** for longer than a second will call up the setup menu (refer to Chapter E 3.3 for details).

See Chapter E 3.3

Button functions and captions
Some of the buttons on the PeakMonitor 10689 have varying functions depending on the display mode. These functions can be used to modify certain parameters of the instruments, for example the gain switching of the PPMs. You can control the current instrument for which the buttons shall be used by simply pressing the red **SELECT** button repeatedly. A white frame will mark the instrument (Multi Instrument 1, Multi Instrument 2 or PPM Section) currently selected button control.

Captions showing the current functions of the buttons can be inserted as a frame at the right edge of the display. In this case the PPMs will be shown in a narrow frame to free space for the captions. There is a menu parameter (**General** menu, **Show Keys** option) defining how the captions should show up (permanently, never or temporary). If temporary is chosen the captions will show up for some seconds after pressing any button. If you want to show the button functions for the currently selected instrument you can press and hold the **SELECT** button.

E 3.3 Menu Access

Using the setup menu you can easily configure individual display modes as well as global system options to fit your personal needs. To do so you should first choose the display mode you want to modify by pressing the **MODE 1** or **MODE 2** key. A small **green spot** at the right edge of the display shows which mode is currently selected. In case you want to change global system parameters (Remote, General) you are free to select any of the two modes.

Press and hold the **MODE** key marked with the green spot for more than 1 second to enter the setup menu for **MODE 1** or **MODE 2**. All menu pages are displayed in blue. The button functions in menu mode are defined by captions shown at the right edge of the display (Quit, Esc, Up, Dwn, Sel). A short description follows beneath.

In the **main menu** you will see the following four options which can be accessed using the **Up**/**Dwn** (Down) keys and entered with the **Sel** (Select) button:

- **Use Preset submenu**
  Use this option to load a factory or user preset for the **MODE** button that was used to enter the setup menu. Press the **Sel** (Select) button repeatedly to select the preset of your choice.



Note:
The Use Preset option only selects the preset for the **MODE** button previously chosen, not for the other one. In case you want to define the preset for the other mode please leave the setup menu with the **Quit** key and press the other **MODE** button. After this you can access the menu again by pressing the same **MODE** button for more than 1 second and select the preset for this mode.

- **Modify Preset submenu**
  Selecting Modify Preset enters a submenu with detailed configuration options for all three display sections (Multi Instrument 1, Multi Instrument 2 and PPM section). The configuration changes made here can be saved in one of the user presets U1 - U8 before leaving the menu (Chapter E 3.5).

See Chapter E 3.5

- **Remote submenu**
  Submenu for activating the remote interface to control the button functions.

- **General submenu**
  Selecting General enters a submenu with several global system options.

The Captions for the button functions in menu mode are now listed top down:

- **Quit key**
  This key is available on all setup menu pages. It is used to leave the menu and return you to normal display mode. If you have entered one of the options on the main menu before (regardless of whether you have actually changed any parameters or not) you will be asked to save the current configuration in one of the user presets by pressing the red **Sel** (Select) key. If you decide to discard any changes you can leave the menu by pressing the **Quit** key again. The unit will then return to normal display operation without storing.

Note:
In case the menu access was locked by the Menu-Lock function in the General submenu, the display will show a form to enter the previously stored access code. With Menu-Lock activated the menu can therefore only be accessed after entering the correct four-digit code.

- **Rgt (Right) key**
  This key is only available on the Routing, Label, Color and Save Preset menu pages. Using this key moves the cursor one step to the right.

- **Esc(ape) key**
  This key is available on all setup menu pages except the main menu level. Using this key you can leave the current menu page and return to the previous page.

- **Up key**
  This key is available on all setup menu pages. Using this key moves the red marked cursor one step up to the next upper menu item. When the cursors gets the item on the top and you press the Up key again the cursor jumps to the item at the bottom of this menu page.

- **Dwn (Down) key**
  This key is available on all setup menu pages. Using this key moves the red marked cursor one step down to the next menu item below. When the cursors gets the item at the bottom and you press the Dwn (Down) key again the cursor jumps to the item on the top of this menu page.

- **Sel(ect) key**
  This key is available on all setup menu pages. Using this key all accessed items can be entered.

E 3.4 Recalling Factory Presets

The PeakMonitor 10689 features different methods to individually monitor stereo and multichannel sound. The factory preset recall provides an easy and fast way to setup the unit. All setup configuration data is saved in 8 factory presets and 8 user presets. Among many other parameters these presets also define the actual input channel configuration the unit works with. By loading one of the factory presets F1 - F8 to each of the both **MODE 1** and **MODE 2** buttons you can access different channel configurations and display modes with only one keystroke. The factory settings can then be modified and stored in the user presets once the adoption to the application has been made.

One of the first things you might want to do while configuring the PeakMonitor 10689 is to load a preset that reflects your individual digital input signal setup. The factory preset names make it easy to recognize which channel setup they should be used for, e. g. 8-Channel or 2 x Stereo.

To load a preset proceed as following:

1. Press and hold the **MODE** button you want to assign a new preset to until the unit changes to main menu mode.

2. If necessary, use **Up** or **Dwn** (Down) key to set the menu focus on the **Use Preset** selection.

3. Select the factory preset F1: 5.1 Surround (or any another preset that fits your requirements) by pressing the red **Sel** (Select) key several times.

4. Exit the main menu mode by pressing the **Quit** key.

See Chapter E 3.5

Note:
How to store modified setup data in a user preset will be explained in Chapter E 3.5.

See Chapter E 3.6

Note:
A list of the provided factory presets can be found in Chapter E 3.6.

E 3.5 Saving and Renaming Presets

If you changed the configuration of the PeakMonitor 10689 with the **Modify Preset** option in the main menu and you want to use these changes in normal display operation you will have to store the modified setup to a user preset of your choice (U1 - U8) before leaving the menu and going back to the normal display modes.
After leaving the main menu or one of the submenus with the **Quit** key you will always see the **Save Preset** screen which prompts you to store the actual configuration into one of the user presets. However there is one exception to this rule: If you only entered the main menu page to select a new preset without accessing one of the submenus you can use **Quit** to return to normal display operation without seeing the save screen.

On the **Save Preset** screen you have two choices: Using **Quit** you can return to normal display operation without saving anything and therefore discarding any changes or save them into one of the user presets with the **SAVE** function.

Assuming you have already entered the **Save Preset** screen proceed as following if you like to store the modifications:

1. Use **Up** or **Dwn** (Down)key to set the red menu focus on the **Store to** selection.

2. By pressing the **Sel** (Select) key repeatedly you can toggle through all available user presets. Select the preset your setup should be saved in.



Note:
There is no copy protection for the presets. Be sure not to destroy a setup that might be used by another operator. You should therefore use a free preset number which is currently not in use.

3. If you like to name your preset individually use **Up** or **Dwn** (Down) key to set the red menu focus on the **Preset-Name** selection. The first character of the currently used preset name is marked with brackets. With the **Sel** (Select) button you can toggle through a bank of characters. Once you found the desired character use the **Rgt** (Right) key to move the focus to the next character of the preset name and select the second character again with the **Sel** (Select) button. Proceed until you created your desired preset name.

4. Use **Up** or **Dwn** (Down) key to set the menu focus on the **Press SEL to** selection and use the **Sel** (Select) button to store the preset. This returns you to the normal display operation with the new preset loaded.

E 3.6 Factory Presets list

F1: 1 x Stereo
F2: 2 x Stereo
F3: 3 x Stereo
F4: 4 x Stereo
F5: 2-Channel
F6: 4-Channel
F7: 6-Channel
F8: 8-Channel

E 3.7 Defining Power On Mode

You can define the display mode the PeakMonitor 10689 comes up with after applying power. The available options are **MODE 1**, **MODE 2** or the **last mode used** before power down.

Proceed as following:

1. From normal display operation, press and hold one of the **MODE** buttons until the unit changes to main menu mode.

2. Use **Up** or **Dwn** (Down) key to set the red menu focus on the **General** option and enter the selection by pressing the **Sel** (Select) button.

3. Use **Up** or **Dwn** (Down) key to set the menu focus on the **PowerOn Mode** selection.

4. By pressing the **Sel** (Select) key repeatedly you can choose the desired option. When chosing **MODE 1** or **MODE 2** the preset assigned to that mode will be loaded the next time the unit is powered on. If the option **Last** is chosen instead, the unit will load the last active preset used before power down.

5. Press **Quit** to leave the **General** menu and save the configuration change with **SAVE** before returning to the normal display mode.

E 3.8 Defining Toggle Options for Multi Instrument 1

Using the **Toggle** option you can cycle through different display modes for the Multi Instrument 1 by simply pressing the currently active **MODE** button repeatedly. In this way it is very easy to switch the instrument between the Multi-Correlator and the Channel Status Display. Before using the Toggle function you will have to define which display modes are accessible for Multi Instrument 1 in this way and store your configuration in a user preset. The Toggle settings are stored as part of a preset and therefore will change when you load a new preset.

To change the Toggle setup of a preset proceed as following:

1. From normal display operation, press and hold the currently marked **MODE** button until the unit changes to main menu mode.

2. Use **Up** or **Dwn** (Down) key to set the red menu focus on the **Modify Preset** option and enter this selection by pressing the **Sel** (Select) button.

3. Use **Up** or **Dwn** (Down) key to set the menu focus on the Toggle Selection option and enter this selection by pressing the **Sel** (Select) button.

4. Use **Up** or **Dwn** (Down) key to access all available display modes for Multi Instrument 1. On each selection use the **Sel** (Select) button to switch this display mode **On** or **Off**. All modes switched to **On** will be available for the Toggle function.

5. Press **Quit** to leave the menu and save the configuration change with **SAVE** before returning to the normal display mode.

6. Repeatedly press the **MODE** button for which the Toggle setup was changed to cycle through all available display modes.

E 7 Installation

E 7.1 Safety information

Before installing and configuring the PeakMonitor 10689 please study the following safety information carefully and observe all the recommendations:



To prevent possible electrical shock, fire, injuries and malfunctions:

- Never open the housing.
- Never insert your fingers or any other objects into the housing.
- Never expose the unit to moisture and do not install it in a dusty environment.
- Never cover the unit or place any objects on it.
- Never operate the unit without adequate ventilation.
- Never place anything containing liquids on the unit.
- Turn off and disconnect the power supply immediately if the unit produces unusual smells, noises or smoke, or if foreign substances (e. g. liquids) or foreign objects enter the unit.



There are no user-serviceable parts in the PeakMonitor 10689. Please always have any necessary servicing performed by a properly qualified technician. Never remove any parts from the unit and do not make any modifications to the unit without the express written consent of RTW. Modifications can cause both safety hazards and affect the unit's EMI-CE conformity.



The PeakMonitor 10689 is designed for indoor use and may only be operated with a power supply unit provided for it.

E 7.2 First time operation

The PeakMonitor 10689 is designed for stand-alone operation. But it can be mounted into mixing consoles or other environments by using a mounting frame available as accessory (see Chapter 8.3). The necessary power supply voltage is supplied by an external wide voltage power supply unit (available as accessory). The connection to your signal sources can be made by the use of suited 25-pin Sub-D couplers. Optional an external standard VGA monitor can be connected to the VGA output connector by using a VGA connection cable.

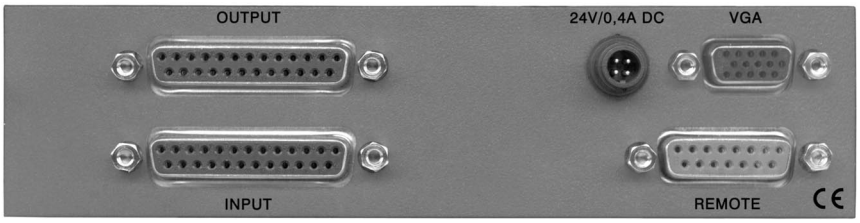


Fig. E 7-1: Connector panel on the rear side of the unit

Important information – please read before installing:

See Chapters E 7.2 and E 7.3.1 to E 7.3.4
- Before installing the unit please study the safety information in Chapter E 7.1 and the information on connections in Chapters E 7.3.1 to E 7.3.4.
- Make sure that there is no connection to the power supply unit.

See Fig. E 7-1 and Chapter E 7.3.2
- Connect optional external function controls to the REMOTE marked Sub-D-F connector. The function controls have to be wired as described in Chapter E 7.3.2.

See Fig. E 7-1 and Chapter E 7.3.3
- Connect an optional external standard VGA monitor to the VGA marked Sub-D-F connector on the rear panel, using a standard VGA connection cable.

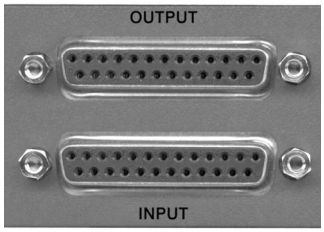
See Fig. E 7-1 and Chapter E 7.3.1
- Now connect your input signal sources to the INPUT marked Sub-D-F connector using a suited 25-pin Sub-D coupler.

See Fig. E 7-1 and Chapter E 7.3.1
- Optional connect the Sub-D-F connector marked OUTPUT with a suited Sub-D coupler if you like to output the signals (passive looped through).

See Chapter E 7.3.4
- Then connect the unit with the external power supply unit.
- After a few seconds the PeakMonitor is ready for operation.

E 7.3 Connection

The PeakMonitor 10689 features four digital inputs, four digital outputs, a connector for power supply and a connector for VGA output (see Fig. E 7-1). The audio I/O's are balanced.

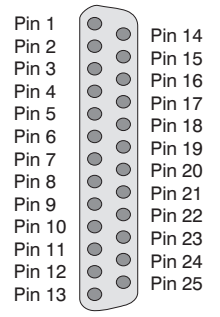


E 7.3.1 Connecting INPUT and OUTPUT:

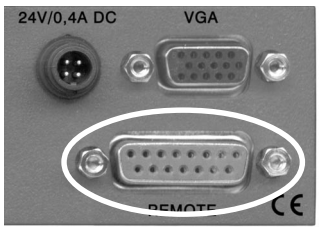
The incoming AES3 signals are passive looped through from the input connector to the output connector.

25-pin Sub-D-F connectors

Pin:	Function:
7	input resp. output digital (AES3) 4 (+, hot)
20	input resp. output digital (AES3) 4 (–, cold)
8	shield/case
21	input resp. output digital (AES3) 3 (+, hot)
9	input resp. output digital (AES3) 3 (–, cold)
22	shield/case
10	input resp. output digital (AES3) 2 (+, hot)
23	input resp. output digital (AES3) 2 (–, cold)
11	shield/case
24	input resp. output digital (AES3) 1 (+, hot)
12	input resp. output digital (AES3) 1 (–, cold)
25	shield/case



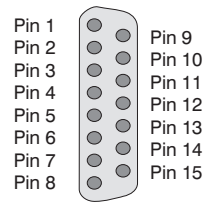
(External view of the connector)



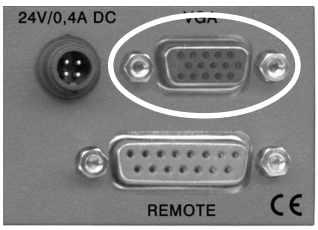
E 7.3.2 Connecting Remote: External function control connection

15-pin Sub-D-F connector

Pin:	Function:
1	common potential for external switches
9	external function control: Func 1
2	external function control: Func 2
3	external function control: Chan
6	external function control: Mode 1 (Set)
7	external function control: Mode 2 (Set)
8	external function control: Sel



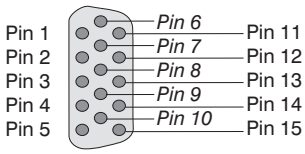
(External view of the connector)



E 7.3.3 Connecting VGA: VGA Monitor connection

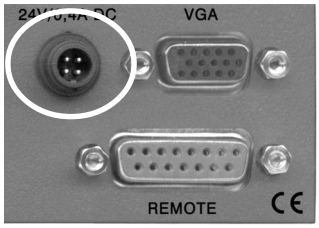
15-pin Sub-D-F connector

Pin:	Function:	
1	R	Video signal
2	G	
3	B	
4	not used	
5 - 8	GND	
9	not used	
10	GND	
11	not used	
12	not used	
13	H-sync	
14	V-sync	
15	not used	



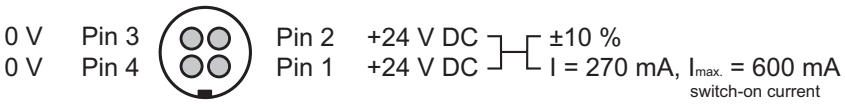
(External view of the connector)

The pins labelled “not used” in the table **must** remain unconnected!



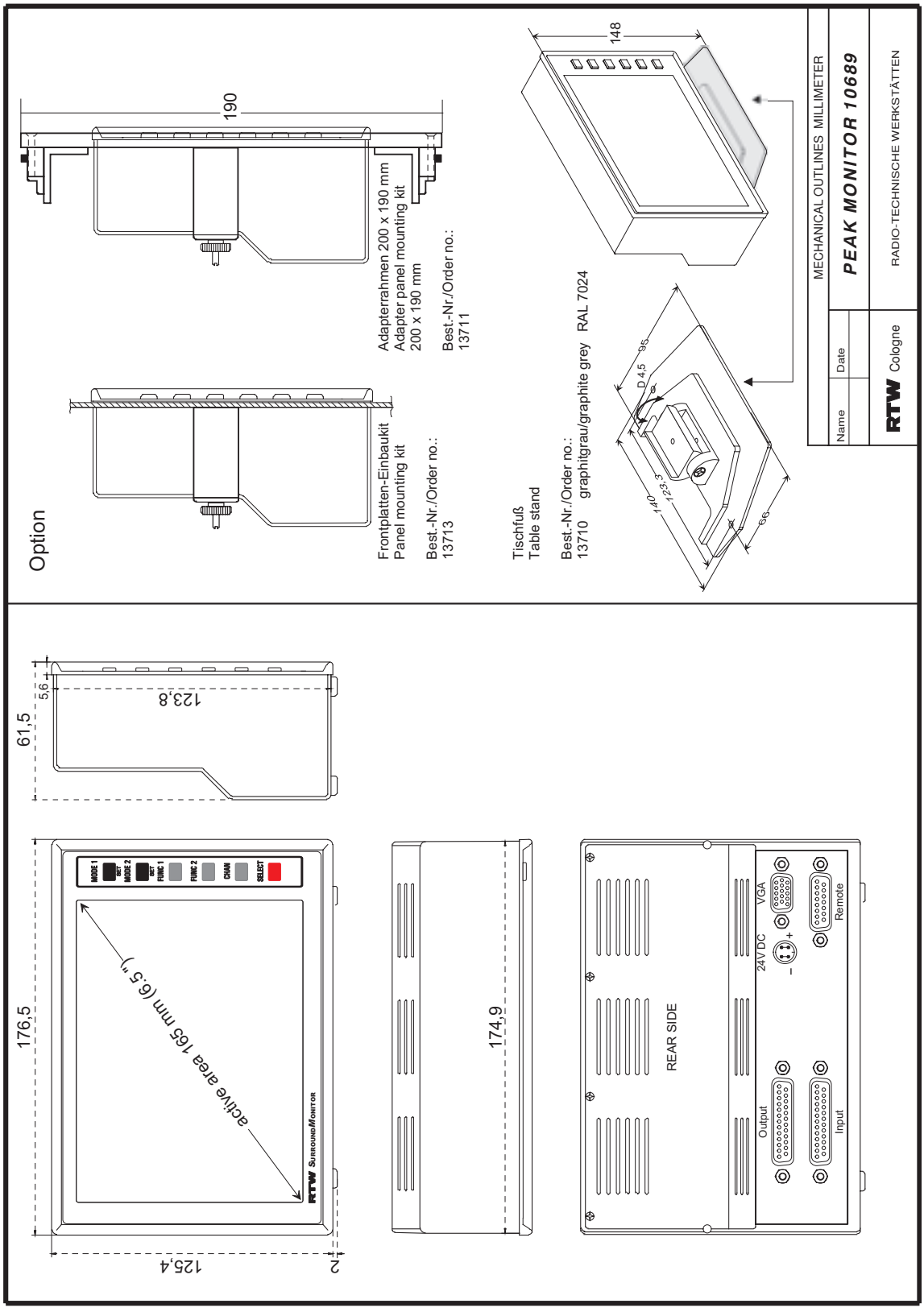
E 7.3.4 Connecting 24 V DC: Power Supply

The SurroundMonitor requires +24 V DC power (±10 %, I_{max} 600 mA). We recommend the use of the RTW 1171-R or 1172-R. These wide voltage power supplies have been designed for use with the PeakMonitor and provide the necessary locking 4-pin low voltage connector type Binder 710.

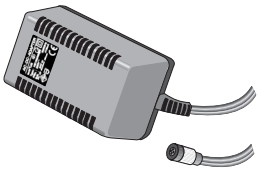


8. Zeichnungen/Drawings

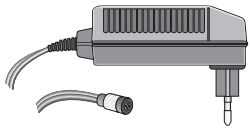
8.1. Abmessungen/Mechanical Outlines 10689



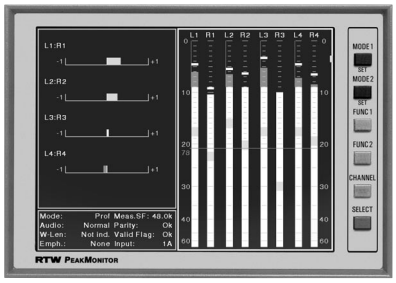
8.2. Zubehörkombination/Accessory combination



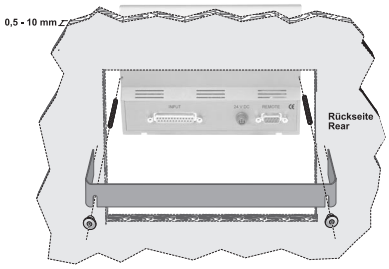
Weitspannungsnetzteil/
Wide voltage power supply **1171-R**
90 - 264 V AC/24 DC, 630 mA
- Eurostecker/Euro plug
- Kleinspannungsstecker 4-pol./
  Locking 4-pin low voltage connector



Weitspannungsnetzteil/
Wide voltage power supply **1172-R**
100 - 240 V AC/24 DC, 630 mA
- Netzstecker für/Plugs for
  Euro, UK, US, AUS
- Kleinspannungsstecker 4-pol./
  Locking 4-pin low voltage connector

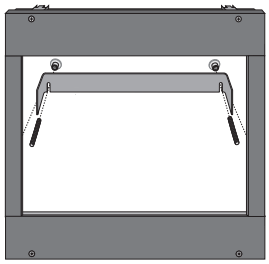


PeakMonitor 10689

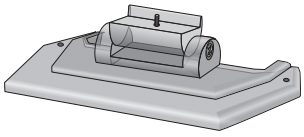


Einbaukit **13713** für den Frontplatteneinbau/
Panel mounting kit **13713** for front panel installation
- Erforderlicher Frontplattenausschnitt/
  Panel cut out:
  174,9 x 123,8 mm (B x H)/(W x H)
- Plattendicke/Panel thickness: 0,5 bis 10 mm

(Instrument nicht enthalten/Instrument not included)



Adapterrahmen/Adapter frame
13711, 200 x 190 mm
- zum Einbau von DigitalMonitoren
  in Montageumgebungen mit
  190 mm Höhe/
  for installation of DigitalMonitors into
  environments with 190 mm vertical
  dimension
- incl. Einbaukit 13713 für den
  Frontplatteneinbau/
  incl. panel mounting kit 13713



Tischfuß/Retrofit table stand
13710: RAL 7024

Appendix A: Specifications

General

Supply voltage:	24 V DC ±10 %
Current drain permanent:	max. 270 mA
Switch on current:	max. 600 mA
Operating temperature range:	0° to +45° celsius
Digital inputs:	4 (Stereo), AES3, transformer balanced
Input impedance:	110 Ω or Hi-Z
Sampling frequency range:	32 kHz to 96 kHz
Digital output:	4 (Stereo), AES3, input signal looped through, unbuffered
Weight:	approx. 750 g net
Connectors:	2 x 25-pin Sub-D-F 1 x 15-pin Sub-D (Remote) 1 x 15-pin Sub-D (VGA) 1 x flange connector type Binder 710 (DC)
Dimensions/weight:	176,5 x 125,5 x 61,5 mm/approx. 750 g

Display

Display:	VGA color TFT, 640 x 480 pixel, 132 x 99 mm
Colors:	8
Reversal direction:	12 o'clock
Viewing angle:	horizontal 60° typ., vertical 60° typ.
Contrast:	250 at reversal direction

Note:
The built-in display has a high resolution (640 x 480 pixel). Even with the most advanced techniques, a small number of pixel defects is inevitable. The manufacturer of the display specifies a maximum of 6 active or passive pixel defects. RTW guarantees these specifications to be met by their products.

Digital Peakmeter

Level display:	up to 8 channels, peak hold indicator switchable, vertical display orientation
Viewing area:	68 x 98 mm (W x H)
Bargraph length:	90 mm
Display modes:	2-channel Stereo, 2 x 2-channel Stereo, 3 x 2-channel Stereo, 4 x 2-channel Stereo, 2-channel, 4-channel, 6-channel, 8-channel
Peak value memory:	maximum peak level, peak hold
Correlator spot indicator:	switchable, in 4 x Stereo mode for up to 4 x 2-channel stereo pairs (at the bottom of each bargraph pair on the left/in the middle)
Loudness meter:	additional spot indicator displayed on the bargraphs of the level display, RTW.Loud or A-, C-, CCIR-2k weighting with RMS
Scales digital:	Digital 1 (–60 to 0 dB FS), Digital 2 (–20 to 0 dB FS), Digital 3 (–2 to +18 dB), Digital 4 (–18 to +18 dB), Digital 5 (–40 to +20 dB), Digital 6 (ARD –60 to 0 to +9 dB)

Scales quasi analog:	qDIN+5, qDIN+10, qNordic, qBR IIa, qBR IIb, qZoom 20 (±10 dB), qZoom 2 (±1 dB)
Headroom:	–5 to –20 dB, adjustable in steps of 1 dB
Integration time (Attack):	Digital 1 - 6: Sample, 0.1 ms, 1 ms, 10 ms; quasi analog scales: according to standard or sample, 0.1 ms, 1 ms
Fall back time:	according to selected standard (1.5 s/20 dB for DIN)
Gain:	Digital 1 - 6: +40 dB; quasi analog scales: +20 dB (DIN, Zoom 2, Zoom 20), +40 dB (British, Nordic)
High pass filter:	OFF, 5 Hz, 10 Hz, 20 Hz
Peak hold indicator:	OFF, 2.5 s, 4.0 s, Man
Digital Over indicator:	red spot indicators above each bargraph
Threshold:	FS, FS-1LSB, FS-2LSB, –0.1, –0.5, –1.0, –2.0 or –3.0 dB FS
Attack time:	1 to 15 samples
Word width:	16 to 24 bit
Mute indicator:	red spot indicators below each bargraph
Threshold:	all bits digital „0“
Attack time:	50, 100, 200, 300 ms
Threshold level:	5 to 80 samples, adjustable in steps of 5 samples

Multi-Correlator

in 4 x 2-Channel Stereo mode:	up to 4 phase meters for up to 4 stereo channel pairs
Visible area:	61 x 80 mm (W x H)
Display mode:	bargraph
Display length:	37 mm width
Scale range:	–1 r to +1 r
Standard color setting:	red: –1 r to –0.1 r white: 0 r green: 0.1 r to +1 r
Colors:	selectable
Attack time:	fast: 1.0 s, slow 2.5 s
Negative peak correlation memory:	included in Peak Memory
Memory accuracy:	better 0.1 r

AES/EBU status display

Visible area:	61 x 18 mm or 61 x 80 (W x H)
Status information:	locked, decoded AES/EBU status, parity, validity

Controls and Display Elements

Keys:	MODE 1 (SET), MODE 2 (SET), FUNC 1, FUNC 2, CHAN(nel), SELECT

Items delivered

PeakMonitor 10689:

- PeakMonitor RAL 7024 graphite grey
- Counter plug for power supply
- Operating manual

Subject to changes without prior notice

Anhang C:/Appendix C: Index

A
AES/EBU Status 10

B
Button functions 12

C
captions 12
Channel Status 10

D
display mode switching 11

E
Escape 13

F
Factory Preset 14
Factory Presets 15

G
General 13
green spot 12

M
Menu Access 12
MODE 1 11
MODE 2 11
Modify Preset 13
Multi Instrument 1 9
Multi Instrument 2 9
Multi-Correlator 10

P
Peak Meter 10
Power On Mode 15
PPM 10
Presets, Renaming 14
Presets, Saving 14

Q
Quit 13

R
Remote 13

S
Stopwatch 10

T
Toggle 11
Toggle Options 16

U
Use Preset 12

W
white frame 12