

Cerberus PACE

## Operating terminals

PT2004-A1, PT2005-A1, PT2006-A1, PT2007-A1, PT2010-A1



**Operating terminals certified to EN 54-16 provide a clear, simple overview and rapid access to the key system functions of a 'Cerberus PACE' voice alarm system.**

- For installation in a 19" cabinet or for remote use
- Quick overview of system functions and alarms
- Easy recognition of signals via color coding and acoustic signals
- Direct operation of system
- Direct volume control and audio data selection at the installation location

The devices are required for displaying and using alarm-related information at a system cabinet or in control panels.

The components PT2010-A1, PT2004-A1 and PT2005-A1 are provided in the form of a 19"-compatible panel for installation in 19" cabinets. The component PT2006-A1 is installed in recessed boxes. The component PT2007-A1 is installed in system cabinet doors for operation when the door is closed and in control panels.

### **System operating unit (19") PT2010-A1**

The system operating unit PT2010-A1 displays the operating and fault status of the audio system. It provides color-coded buttons to trigger, reset, and silence alarms. Color-coded LEDs in the respective button indicate the status of the 'alarm' function and the 'silencing' function. It communicates via the 'PACE-Bus' with an audio matrix.

It provides the following features:

- Displays information on operation, faults and alarms provided via color-coded display elements
- Issues an acoustic warning via an integrated buzzer if there are error messages in the system

Operating personnel can perform the following functions on the system operating unit:

- Manually trigger an alarm: red 'Alarm' button
- Read off the alarm status: red LED in 'Alarm' button
- Manually reset an alarm: black 'Reset' button
- Manually silence an alarm: green 'Silence' button
- Display the silencing status: green LED in 'Silence' button
- Acknowledge fault messages: black 'Fault Indication Reset' button

A DC/DC converter on the printed circuit board electrically isolates all inputs and outputs from the DC 24 V power supply.

### **System state indicator (19") PT2004-A1**

The system state indicator PT2004-A1 displays the operating status of the audio system. It provides the following features:

- Displays information on operation, faults and alarms provided via color-coded display elements
- Issues an acoustic warning via an integrated buzzer if there are error messages in the system
- Acknowledges fault messages via an integrated button

A DC/DC converter on the printed circuit board electrically isolates all inputs and outputs from the DC 24 V power supply.

### **System state indicator (door) PT2007-A1**

The system state indicator PT2007-A1 offers the same functions as the system state indicator PT2004-A1, but is designed for installation in cabinet doors or control panels.

### **Alarm control panel (19") PT2005-A1**

The alarm control panel PT2005-A1 provides color-coded buttons to trigger, reset, and silence alarms. Color-coded LEDs in the respective button indicate the status of the 'alarm' function and the 'silencing' function. Operating personnel can perform the following functions on the alarm control panel:



- Manually trigger an alarm: red 'Alarm' button
- Read off the alarm status: red LED in 'Alarm' button
- Manually reset an alarm: black 'Reset' button
- Manually silence an alarm: green 'Silence' button
- Display the silencing status: green LED in 'Silence' button
- Acknowledge fault messages: black 'Fault Indication Reset' button


## Remote control panel PT2006-A1


The remote control panel PT2006-A1 is connected to one of the digital audio matrices PC2001-A1, PC2002-A1, PC2003-A1, PC2005-A1 or PC2006-A1.


When combined with one of the audio matrices, it is possible to control the sound level on site, switch between various default settings, and control the audio source, e.g., a CD player or radio tuner, in selected areas.

## Features and Functions






| PT2010-A1   | 'System operating unit (19")'  |
|---|--|
|    | <ul style="list-style-type: none"> <li>● EN 54-16-compliant indicator panel for visual and acoustic status messages and control voice alarms</li> <li>● Display of system status</li> <li>● Control of voice alarms</li> <li>● Fault warning with acoustic warning signal</li> <li>● Color-coded visual indicators: operation, fault, and alarm               <ul style="list-style-type: none"> <li>– Operation: green</li> <li>– Fault: yellow</li> <li>– Voice Alarm: red</li> </ul> </li> <li>● Color-coded control buttons: control of voice alarms, acknowledges               <ul style="list-style-type: none"> <li>– &lt;Start Voice Alarm&gt;: red LED indicator button</li> <li>– &lt;Reset Voice Alarm&gt;: black button</li> <li>– &lt;Silence Voice Alarm&gt;: green LED indicator button</li> <li>– Acknowledge faults: black button</li> <li>– Acknowledge acoustic warning and LED test: black button</li> </ul> </li> <li>● 8 predefined visual fault indicators: yellow               <ul style="list-style-type: none"> <li>– Power fault</li> <li>– Fuse fault</li> <li>– Earth fault</li> <li>– 'PACE-Net' fault</li> <li>– 'PACE-Bus' fault</li> <li>– Amplifier fault</li> <li>– Microphone fault</li> <li>– Speaker circuit fault</li> </ul> </li> <li>● 8 user-configurable state indicators: yellow</li> <li>● Potential-free fault contact</li> <li>● Service socket</li> <li>● RS485 data transmission ('PACE-Bus')</li> <li>● Addressable via 4-way SIP switch for 'PACE-Bus' connection</li> <li>● Design: 19", 2 HU</li> </ul> |
| PT2004-A1   | 'System state indicator (19")'   |
|  | <ul style="list-style-type: none"> <li>● EN 54-16-compliant indicator panel for visual and acoustic status messages</li> <li>● Color-coded visual indicators: operation, fault, and alarm               <ul style="list-style-type: none"> <li>– Operation: green</li> <li>– Fault: yellow</li> <li>– Voice Alarm: red</li> </ul> </li> <li>● Fault warning with acoustic warning signal</li> <li>● Acknowledge acoustic warning and LED test: black button</li> <li>● Potential-free fault contact</li> <li>● Design: 19", 1 HU</li> </ul>  |

|   |  |
|---|--|
| <b>PT2007-A1</b>  | <b>'System state indicator (door)'</b>   |
|  <p>The image shows a rectangular, light-colored panel with three circular indicators: a green one labeled 'Operating Betriebs', a yellow one labeled 'Fault Störung', and a red one labeled 'Voice alarm Sprachalarm'. To the right of these is a black button labeled 'Duzzer reset/Test Quittierung/Test'. The SIEMENS logo and the model number PT2007 are also visible.</p> | <ul style="list-style-type: none"> <li>• EN 54-16-compliant indicator panel for visual and acoustic status messages</li> <li>• Color-coded visual indicators: operation, fault, and alarm <ul style="list-style-type: none"> <li>– Operation: green</li> <li>– Fault: yellow</li> <li>– Voice Alarm: red</li> </ul> </li> <li>• Fault warning with acoustic warning signal</li> <li>• Acknowledge acoustic warning and LED test: black button</li> <li>• Potential-free fault contact</li> <li>• Design: open frame</li> </ul> |

|   |  |
|---|--|
| <b>PT2005-A1</b>  | <b>'Alarm control panel (19"')'</b>  |
|  <p>The image shows a long, thin, light-colored panel with several buttons and LEDs. From left to right, there is a red LED button labeled 'Activate', a black button labeled 'Reset', and a green LED button labeled 'Silence'. There is also a black button labeled 'Acknowledge faults' and a service socket. The SIEMENS logo and model number PT2005 are visible.</p> | <ul style="list-style-type: none"> <li>• Activation of voice alarms <ul style="list-style-type: none"> <li>– Activate: red LED button</li> <li>– Reset: black button</li> <li>– Silence: green LED button</li> </ul> </li> <li>• Button to acknowledge faults: black</li> <li>• Service socket</li> <li>• Design: 19", 1 HU</li> </ul> |

|   |  |
|---|--|
| <b>PT2006-A1</b>  | <b>'Remote control panel'</b>  |
|  <p>The image shows a white, square-shaped remote control panel with a central display screen. Above the screen are four buttons, and below it are four more buttons. The SIEMENS logo and model number RC-3265 are visible.</p> | <ul style="list-style-type: none"> <li>• Buttons and display for channel selection</li> <li>• Sound level settings</li> <li>• Connection of up to 16 remote control panels to the digital audio matrices PC2001-A1, PC2002-A1, PC2003-A1, PC2005-A1, or PC2006-A1 possible via the RS485 interface</li> <li>• Supplied with installation frame</li> <li>• For installation in recessed box</li> <li>• 4-pin cables for RS485 interface and power supply</li> </ul> |

## Type Overview

| Type   | PT2010-A1   | PT2004-A1   | PT2007-A1  | PT2005-A1   | PT2006-A1   |
|--|---|---|--|---|---|
|  |  |  |  |  |  |
| Designation                                    | System operating unit (19")   | System state indicator (19")  | System state indicator (door)  | Alarm control panel (19")   | Remote control panel  |
| Order number                                   | S54451-B56-A1   | S54451-B11-A1   | S54451-B14-A1  | S54451-B12-A1   | S54451-B13-A1   |
| <b>Features</b>                                |   |   |  |   |   |
| System state indicator                         | ●   | ●   | ●  | –   | –   |
| Acknowledgment of fault messages               | ●   | ●   | ●  | ●   | –   |
| Operation of alarming functions                | ●   | –   | –  | ●   | –   |
| Selection of audio source                      | –   | –   | –  | –   | ●   |
| Selection of default audio settings            | –   | –   | –  | –   | ●   |
| Volume control                                 | –   | –   | –  | –   | ●   |
| <b>Housing</b>                                 |   |   |  |   |   |
| 19"  | ●   | ●   | –  | ●   | –   |
| Aluminum sheet for switch cabinet installation | –   | –   | ●  | –   | –   |
| Open frame design                              | ●   | ●   | ●  | ●   | –   |
| Frame for recessed box installation            | –   | –   | –  | –   | ●   |

- Included
- Not included

## Device combinations

| Type      | PC2001-A1<br>Digital audio<br>matrix (4/4/4) | PC2002-A1<br>Digital audio<br>matrix (0/4/4) | PC2003-A1<br>Digital audio<br>matrix (4/4/16) | PC2005-A1<br>Digital audio<br>matrix no<br>supervision<br>(4/4/4) | PC2006-A1<br>Digital audio<br>matrix no<br>supervision<br>(0/4/4) |
|-----------|--|--|---|---|---|
| PT2010-A1 | •  | •  | •   | •   | •   |
| PT2004-A1 | •  | •  | •   | •   | •   |
| PT2007-A1 | •  | •  | •   | •   | •   |
| PT2005-A1 | •  | •  | •   | •   | •   |
| PT2006-A1 | •  | •  | •   | •   | •   |

- Compatible
- Not compatible

## Order numbers

| Type                       | Designation                   | Order number  |
|----------------------------|-------------------------------|---------------|
| <b>Operating terminals</b> |                               |               |
| PT2010-A1                  | System operating unit (19")   | S54451-B56-A1 |
| PT2004-A1                  | System state indicator (19")  | S54451-B11-A1 |
| PT2007-A1                  | System state indicator (door) | S54451-B14-A1 |
| PT2005-A1                  | Alarm control panel (19")     | S54451-B12-A1 |
| PT2006-A1                  | Remote control panel          | S54451-B13-A1 |

## Product documentation

You will find more information on the Cerberus PACE system and its components in the following documents:


| Title                                     | Document ID |
|---|-------------|
| <b>IT security policies</b>               |             |
| Cerberus PACE – IT security policies      | A6V11439692 |
| <b>System documentation</b>               |             |
| Cerberus PACE – planning                  | A6V11244536 |
| 'PACE-Design' – configuration             | A6V10429097 |
| Cerberus PACE – mounting / installation   | A6V10430579 |
| Cerberus PACE – operation                 | A6V10430571 |
| <b>Data sheets</b>                        |             |
| System data sheet                         | A6V11243351 |
| 19" cabinets                              | A6V10429243 |
| Digital audio matrix                      | A6V10430497 |
| Power amplifier                           | A6V10430515 |
| Operating terminals                       | A6V10430526 |
| Call stations and extensions              | A6V10430544 |
| Power supply and batteries                | A6V10430553 |
| Accessories and options                   | A6V10430563 |
| <b>Loop isolator (100V)</b>               |             |
| Loop isolator (100V) - technical manual   | A6V11571319 |
| <b>Environmental declaration</b>          |             |
| Cerberus PACE – environmental declaration | A6V11948779 |

### Download center

Related documents such as environmental declarations, CE declarations, etc., can be downloaded at the following Internet address:

<http://siemens.com/bt/download>

## Safety

|   |  |
|---|--|
|  | <b>⚠ CAUTION</b>   |
|   | <p><b>National safety regulations</b></p> <p>Failure to comply with national safety regulations may result in personal injury and property damage.</p> <ul style="list-style-type: none"> <li>• Observe national provisions and comply with the appropriate safety regulations.</li> </ul> |

## Mounting

The system operating unit PT2010-A1, system state indicator PT2004-A1 and the alarm control panel PT2005-A1 are installed at access level 2 (restricted access) and only provide access to the indicated functions to authorized personnel.

The remote control panel PT2006-A1 is supplied with an installation frame and can be mounted in a recessed box.

The system state indicator PT2007-A1 is installed in switch cabinet doors or in control panels.

## Disposal



The device is considered an electronic device for disposal in accordance with the European Guidelines and may not be disposed of as domestic garbage.

- Dispose of the device through channels provided for this purpose.
- Comply with all local and currently applicable laws and regulations.

## Environmental compatibility

The Environmental Product Declaration (EPD) for 'Cerberus PACE VANSYS' contains data and information on the product's environmentally compatible design features and its ratings; for example, its RoHS conformity, composition, packaging, environmental benefits, and disposal information.

You can obtain the document A6V11948779 via the following Internet address:

<https://siemens.com/bt/download>

Enter the document ID in the search field.

## Guarantee

The application-specific technical data is guaranteed only in combination with the Siemens products listed in the 'Device combinations' section. If third-party products are used, any guarantee provided by Siemens will be invalidated.



## Technical data

|   | PT2010-A1                    | PT2004-A1                    | PT2007-A1   | PT2005-A1                    | PT2006-A1                                |
|---|------------------------------|------------------------------|---|------------------------------|--|
| <b>Supply</b>   |                              |                              |   |                              |  |
| Power supply  | DC 24 V                      |                              |   | DC 9...14 V                  | DC 10...24 V                             |
| Power consumption   | Max. 5 W                     |                              |   |                              |  |
| <b>Interfaces</b>   |                              |                              |   |                              |  |
| Serial interfaces   | RS485: 'PACE-Bus'            | –                            |   |                              | RS485:<br>16x modules can be connected   |
| <b>Ambient conditions</b>                                       |                              |                              |   |                              |  |
| Operating temperature   | -5...+40 °C                  |                              |   |                              |  |
| Storage temperature   | -20...+70 °C                 |                              |   |                              |  |
| Operation in humid environments (without moisture condensation) | 10...90 % rel.               |                              |   |                              |  |
| Storage in humid environments (without moisture condensation)   | 5...90 % rel.                |                              |   |                              |  |
| <b>Housing type</b>   | Open frame design; 19", 2 HU | Open frame design; 19", 1 HU | Open frame design; aluminum sheet for switch cabinet installation | Open frame design; 19", 1 HU | With frame for recessed box installation |
| <b>Protection class (EN 61140)</b>                              | III                          |                              |   |                              |  |
| <b>Dimensions and weights</b>                                   |                              |                              |   |                              |  |
| W x H x D mm  | 483 x 88 x 40                | 483 x 44 x 35                | 142 x 65 x 35   | 483 x 44.25 x 45             | 80 x 80 x 47                             |
| Installation depth  | –                            |                              |   |                              | 37 mm                                    |
| Weight  | 300 g                        | 160 g                        | 160 g   | 100 g                        | 100 g                                    |
| <b>Color</b>  | RAL 7035 light gray          |                              |   |                              | Light grey / white                       |
| <b>Standards</b>  | EN 54-16                     |                              |   |                              |  |

Issued by  
Siemens Switzerland Ltd  
Smart Infrastructure  
Global Headquarters  
Theilerstrasse 1a  
CH-6300 Zug  
Tel. +41 58 724 2424  
[www.siemens.com/buildingtechnologies](http://www.siemens.com/buildingtechnologies)

© Siemens Switzerland Ltd, 2018  
Technical specifications and availability subject to change without notice.