

User  
manual  
SIGNALOG 6000



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# Contents:

- 1. Introduction ..... 3**
  - 1.1 General ..... 3
  - 1.2 View of the system ..... 4
  - 1.3 Processor Card configuration ..... 4
  - 1.4 I/O card configuration ..... 5
- 2 Technical specifications ..... 6**

Version number	VERSION 1.0
Release date	December 2000
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# 1. Introduction

## 1.1 General

Signalog 6000 is a modular multi-channel amplifier system from Peekel Instruments B.V.

It consists of the following main parts:

- 19" rack case with a height of 4HE, with backplane and power supply
- Processor card
- 1 to 13 I/O cards

The processor and I/O cards are located at the rearside of the rack. These cards can be removed or inserted without opening the housing.

**WARNING**

Removing or inserting a card must be done when the system is switched off. Removing or inserting the card when the system is switched on, can damage the system or the cards.

At the rearside of the system is a unit, which combines the power inlet, power switch and fuse.

**WARNING**

Replacing the fuse must be done with the power cord disconnected, to prevent electrical shock hazard

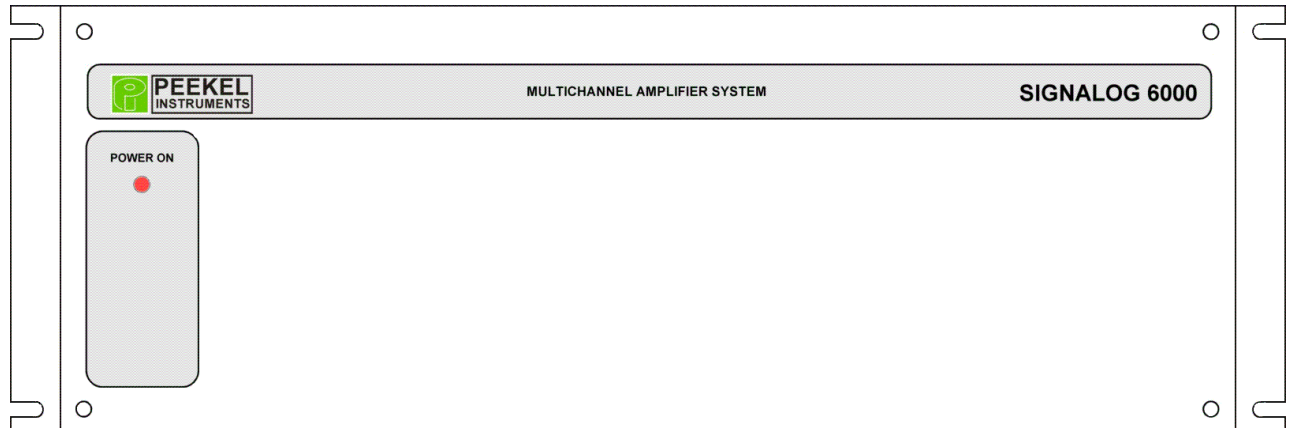
**WARNING**

Do not open the case. There are no user serviceable parts inside.  
Danger for electrical shock hazard!!

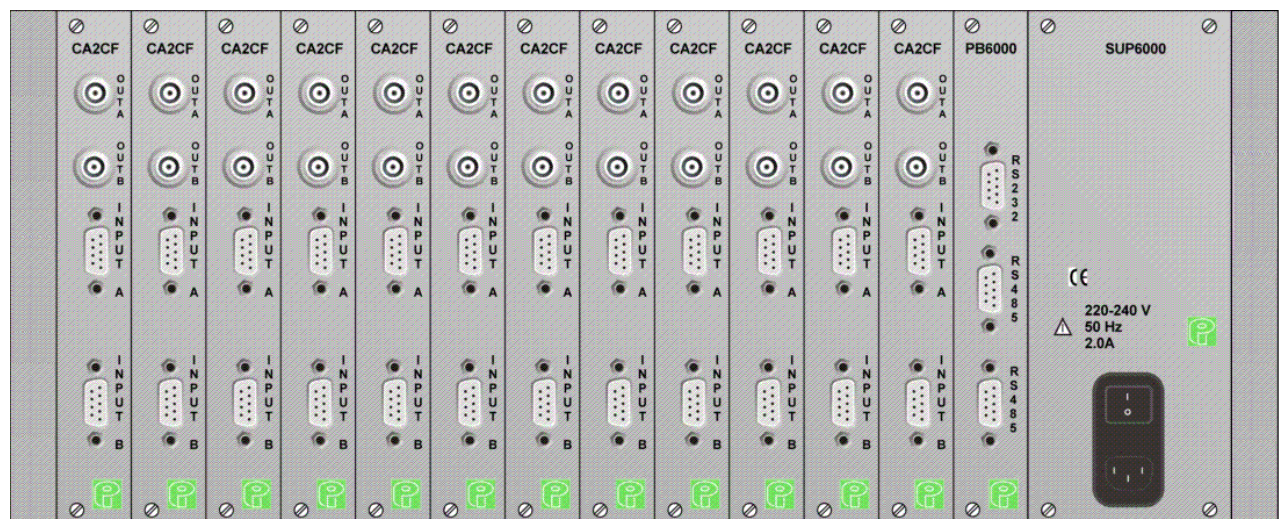
The Signalog 6000 system will produce some heat. For an optimal airflow to cool the system, perforations are made in the top and bottom panel. When mounting the system, free airflow must be guaranteed. Leave open space on top and bottom of the system.

## 1.2 View of the system

The front view of the system:



The rear view of the system, when all the slots contain a CA2CF card:



The CA2CF card closest to the PB6000 card is placed in slot number 0

## 1.3 Processor Card configuration

The Signalog 6000 system must have at least a processor board and 1 input board before it is operational.

The processor board, which is available at this moment, is the PB6000. This board controls the Signalog 6000 I/O cards. To communicate with external equipment, the PB6000 has a RS232C interface. When a PC is connected to this interface, the system can be controlled through a software application on the PC.

For communication with other Signalog 6000 systems, an RS485 interface is present. If desired the PC can also be directly connected to this RS485 interface.

On the PB6000 a 16 bit A/D converter is present, for conversion of the analog output signal from each channel to a digital value.

For more information on the PB6000 see the PB6000 manual.

## 1.4 I/O card configuration

There are 13 slots for mounting an In- or Output card. Each slot can address a maximum of 4 input channels, but the actual number of input channels in a slot depends on the used input card.

The CA2CF input card, which is available at this moment, has 2 complete input channels, for strain gauge measurement. This card uses an AC sensor supply voltage, to eliminate any DC spurious voltages, and it can also do the measurement of capacitive and inductive transducers.

For more information on a specific I/O card, see the manual for this card

## 2 Technical specifications

### **Power supply**

230 VAC +/- 10% -- 50 Hz, 200W

Fuse 1A, fast.

### **Dimensions:**

Housing: 480 x 410 x 180 mm (W x D x H)

Weight: (without cards): 11 Kg

### **Card slots:**

1 slot for processor board PB6000

13 slots for input boards CA2CF