

# The CPP-Monitor      The Versatile Tool

## Monitoring Cerebral Perfusion Pressure

Cerebral Perfusion Pressure (CPP) is the difference of Arterial Blood Pressure (ABP) and Intracranial Pressure (ICP).

The intensive therapy should aim at keeping the CPP above 50 mmHg. The physiological CPP is about 80 mmHg.

### ... with the CPP-Monitor

The CPP-Monitor measures Arterial Blood Pressure and Intracranial Pressure, calculates the mean values, and shows them on the digital display. Cerebral Perfusion Pressure is calculated and also shown on the digital display.

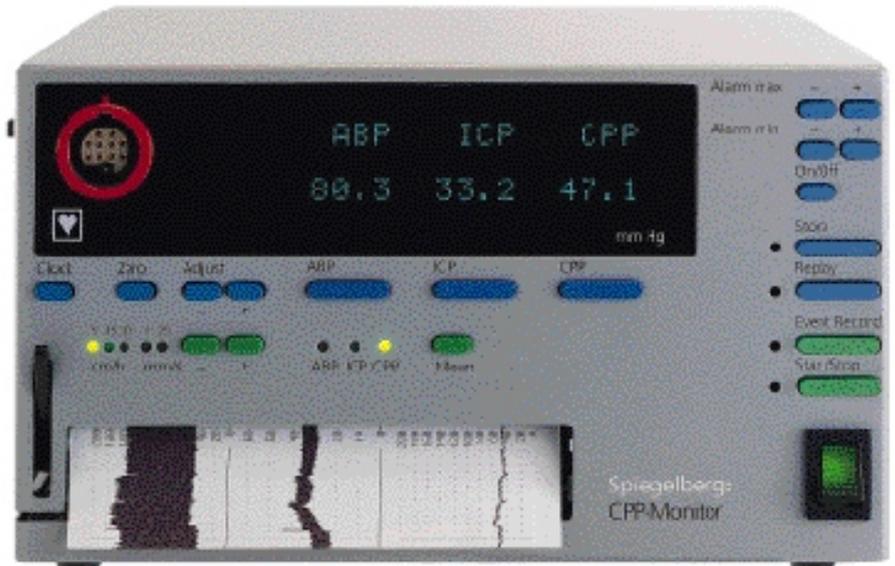
High and low alarm thresholds are programmable for ABP, ICP, and CPP.

With the built-in chart recorder Blood Pressure, Intracranial Pressure, and Perfusion Pressure can be recorded continuously. They can be recorded as momentary values or as mean values.

Event recording allows automatic recording whenever one or more of the alarm thresholds are exceeded. Headers and trailers are additionally recorded in order to show the event completely.

Besides the Spiegelberg: Brain-Pressure Monitor all other types of ICP transducers and ICP measuring devices can be connected. All types of standard pressure transducers can be used to pick up Arterial Blood Pressure.

The pressure signals are available at the outputs for graphic recorder and patient monitor. Using the RS 232 C interface the pressures can be fed into a computer.



A memory card can be inserted on the side of the CPP-Monitor. It can store 24 hours of signal. The stored pressures can be replayed on the recorder at different speeds. Furthermore, the stored signal can be read into a computer that can perform additional analyses. This feature is particularly suited for scientific work.



### Order Number

CPP-Monitor                      CPP 21.1

### Technical Information

Pressure transducer inputs	5 $\mu$ V/mmHg/V, CF Isolated
Voltage input ICP	1 V/200 mmHg
Voltage input ABP	1 V/400 mmHg
RS 232 C interface	300-9600 Baud
Measuring range ABP	200 mmHg
Measuring range ICP	60 mmHg
Measuring range CPP	200 mmHg
Paper width	100 mm
Recording speed	25      mm/s 1        mm/s 30      cm/h 15      cm/h 5        cm/h
Monitor outputs	5 $\mu$ V/mmHg/V, CF isolated
Voltage outputs	1 V/50 mmHg
Memory card	512 KB, 24 h signal, Replay at 30 cm/h max.