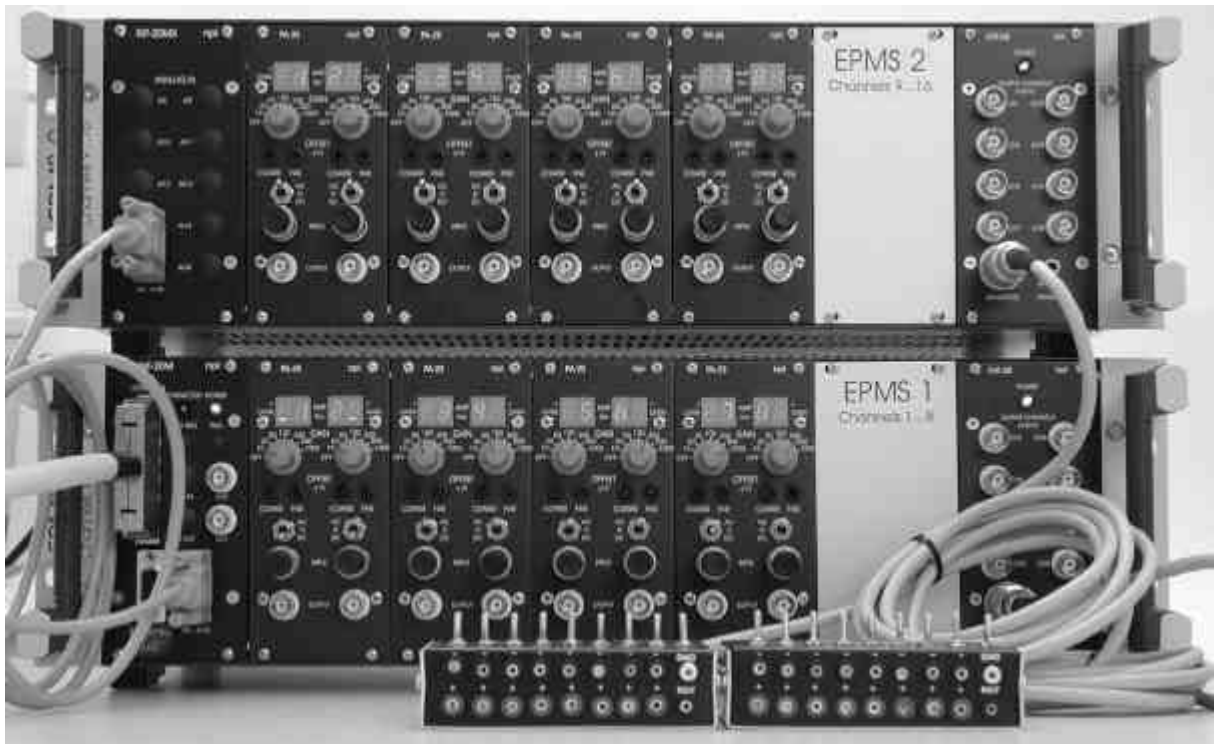


OPERATING INSTRUCTIONS AND SYSTEM DESCRIPTION FOR THE

EXT-16

16-CHANNEL EXTRACELLULAR RECORDING SETUP

ADDENDUM TO MANUALS OF THE MODULES



VERSION 1.0
npi 2003

CONFIGURATION OF INPUTS AND OUTPUTS OF THE MODULES

Modules: INT-20M, INT-20MX, PA-2S, EXT-08

The system consists of two EPMS-07 housings, **EPMS-1** and **EPMS-2**.

Modules of **EPMS-1**:

- ❑ One INT-20M
- ❑ One EXT-08
- ❑ Four PA-2S

Modules of **EPMS-2**:

- ❑ One INT-20MX
- ❑ One EXT-08
- ❑ Four PA-2S

All modules are linked internally via the EPMS bus to the respective amplifiers or breakout boxes.

EPMS-1

The **OUTPUTS** of the EXT-08 amplifier are linked to the **INPUTS** of the four PA-2S preamplifiers, i.e. Channel 1 of the EXT-08 is linked to AMP.No. 1 of the PA-2S, Channel 2 of the EXT-08 is linked to AMP.No. 2 of the PA-2S, and so on.

The **OUTPUTS** of the PA-2S amplifiers are linked to the analog inputs (Ai) of the INT-20M, i.e. **OUTPUT** of AMP.No. 1 of the PA-2S is linked to Ai0 of the INT-20M, **OUTPUT** of AMP.No. 2 of the PA-2S is linked to Ai1 of the INT-20M, and so on.

Note: The numbering of the INT-20M begins with 0, while the numbering of the amplifiers (PA-2S) in the EPMS 1 begins with 1.

EPMS-2

The **OUTPUTS** of the EXT-08 amplifier are linked to the **INPUTS** of the four PA-2S preamplifiers, i.e. Channel 1 of the EXT-08 is linked to AMP.No. 1 of the PA-2S, Channel 2 of the EXT-08 is linked to AMP.No. 2 of the PA-2S, and so on.

The **OUTPUTS** of the PA-2S amplifiers are linked to the analog inputs (Ai) of the INT-20MX, i.e. **OUTPUT** of AMP.No. 1 of the PA-2S is linked to Ai8 of the INT-20MX, **OUTPUT** of AMP.No. 2 of the PA-2S is linked to Ai9 of the INT-20MX, and so on.

Ai8....Ai15 are available at the 9-pole SUBD plug of the INT-20MX. These signals have to be connected to the Ai8....Ai15 plug at the INT-20M.

Note: The numbering of the INT-20MX begins with 8, while the numbering of the amplifiers (PA-2S) in the EPMS 2 begins with 1.

Thus, all signals from the **OUTPUTS** of the PA-2S amplifiers are available at the 68-pole TO COMPUTER plug of the INT-20M.

General

The AC / 0 / DC switches of the PA-2S amplifiers determine the coupling of the internally connected EXT-08 channels as well.

The INPUTs of the PA-2S amplifiers are still active, i.e. they can be used as additional INPUTs. The OUTPUTs of the PA-2S amplifiers are always the sums of the signals from the EXT-08 and the signals at the INPUT BNCs of the PA-2S amplifiers.

Signals measured with the EXT-08 are available at 3 OUTPUTs of the system:

- ❑ OUTPUT BNCs of the EXT-08 with an amplification of 10
- ❑ OUTPUT BNCs of the respective PA-2S with an amplification of 100...10000
- ❑ Plug TO COMPUTER at the INT-20M or 9-pole SUBD at the INT-20MX with the same amplification of the respective PA-2S.

The OUTPUT BNCs are intended to be used as additional monitors.