

Options and pitfalls when using ICM+ for collecting data from Philips Intellivueand Hemedex CBF-monitors

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The challenge ...





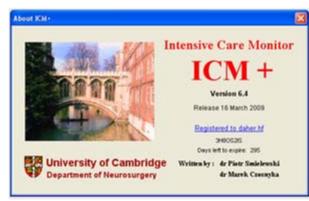
Philips IntelliVue:

- arterial blood pressure
- intracranial pressure
- ECG, SpO₂, etc...

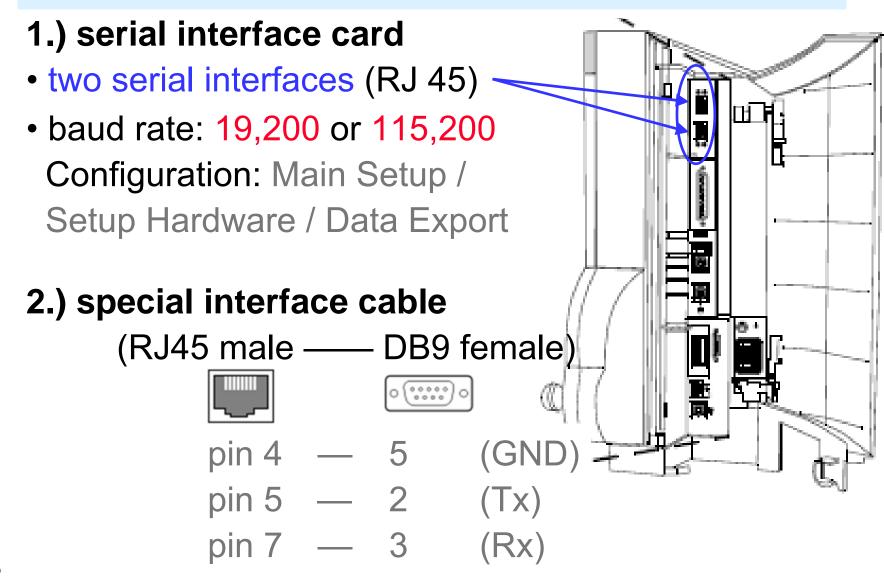


Hemedex Bowman Perfusion Monitor:

- regional CBF
- brain temperature

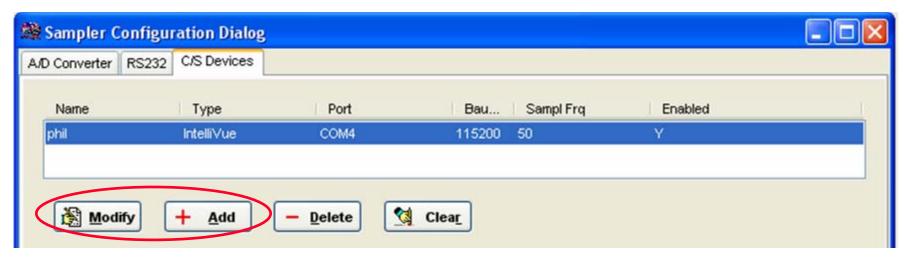


IntelliVue - Prerequisites

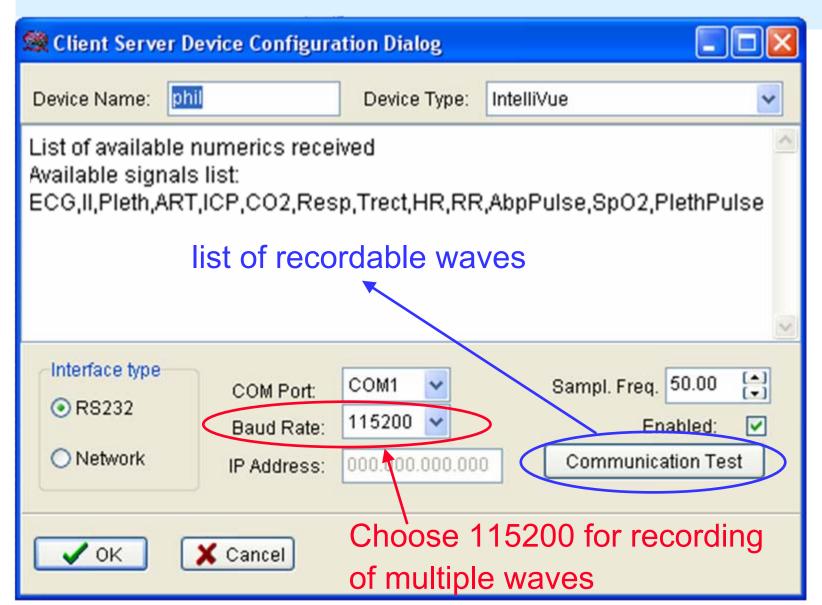


ICM+ configuration

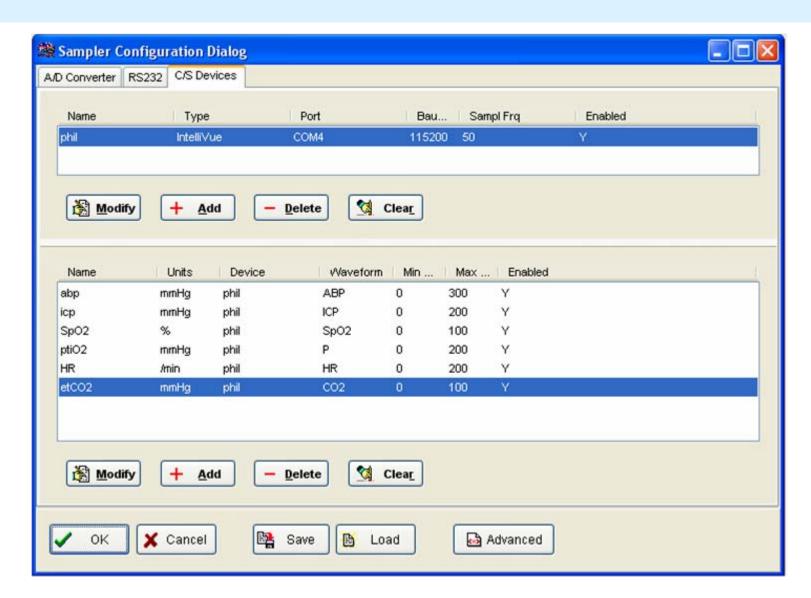
Configure IntelliVue as client/server (C/S Devices):



IntelliVue as C/S Device

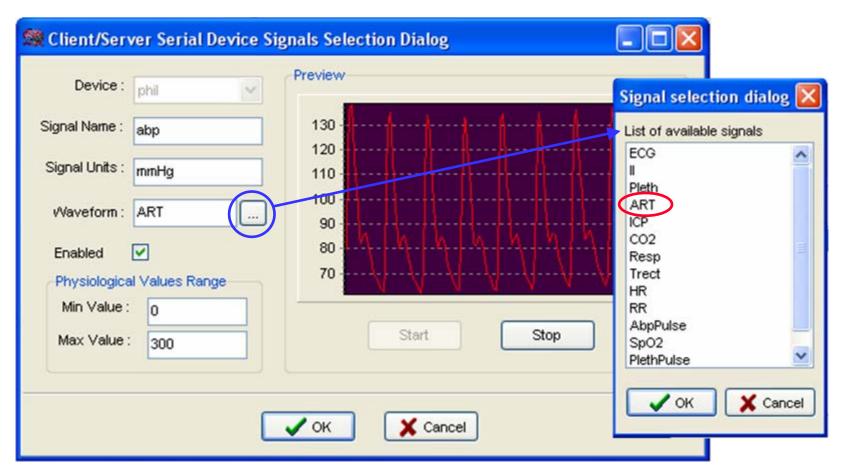


configuration of signals



Assignment of signals to waveforms

Choose a **label for arterial blood pressure** at the IntelliVue monitor (e.g. **ABP** or **ART**), and **keep it**!

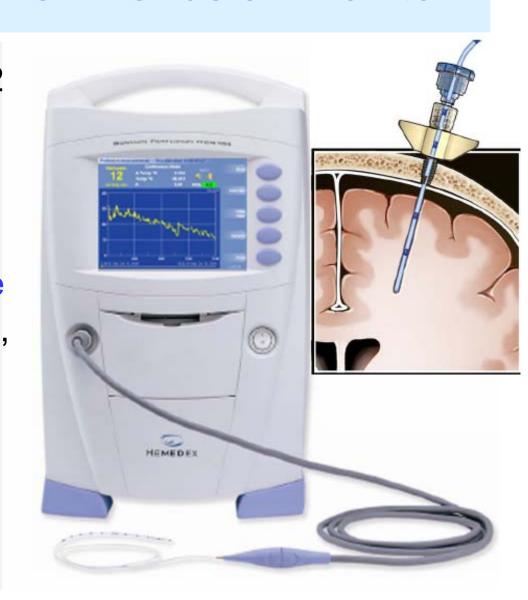


Hemedex Bowman Perfusion Monitor

(equipped with RS232 interface as standard)

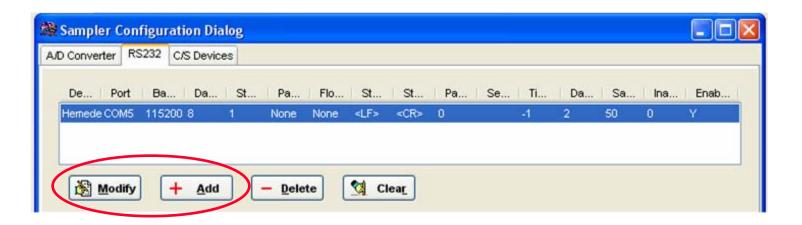
Requirements:

- standard serial cable
 (DB9 male female),
- no nullmodem cable

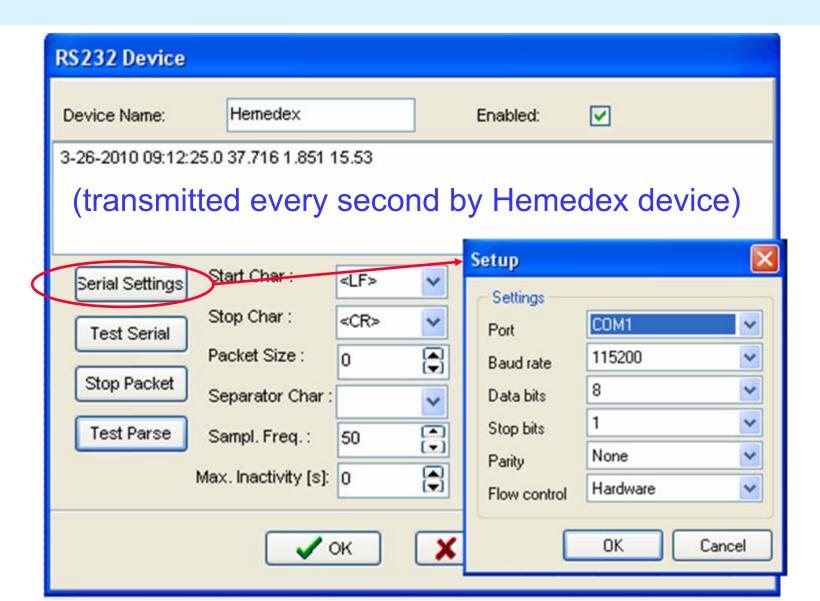


ICM+ configuration

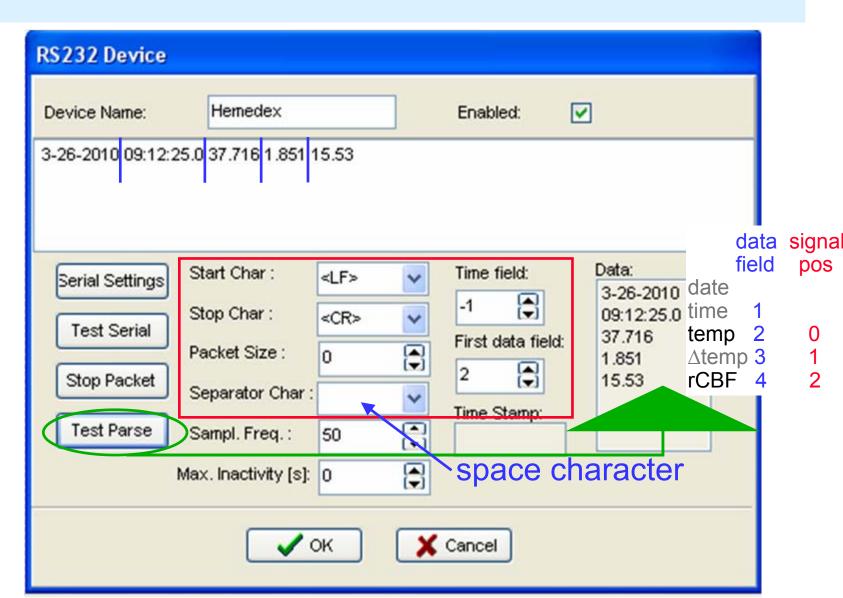
Configure Hemedex as RS232 device (RS232):



Hemedex as RS232 device

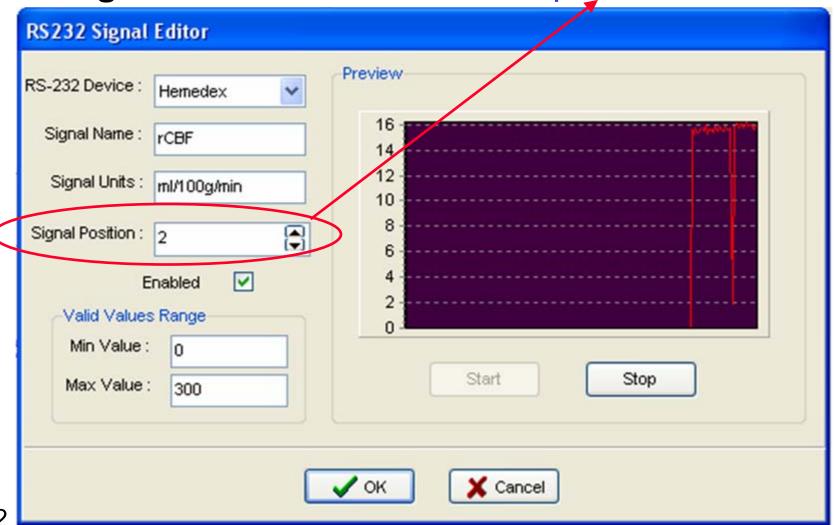


Parsing is crucial !!!



Assignment of signals

Signal Position: $0 \rightarrow \text{brain temp}, 2 \rightarrow \text{rCBF}$



Summary of pitfalls

Philips IntelliVue Monitor:

- serial interface card required
- set baud rate to 115200
- special cable required
- configure as client/server (C/S) device
- choose label for arterial blood pressure and keep it

Hemedex Bowman Perfusion Monitor:

- configure as RS 232 device
- use correct parsing