

# Spider8



The friendly alternative for  
PC based measurement

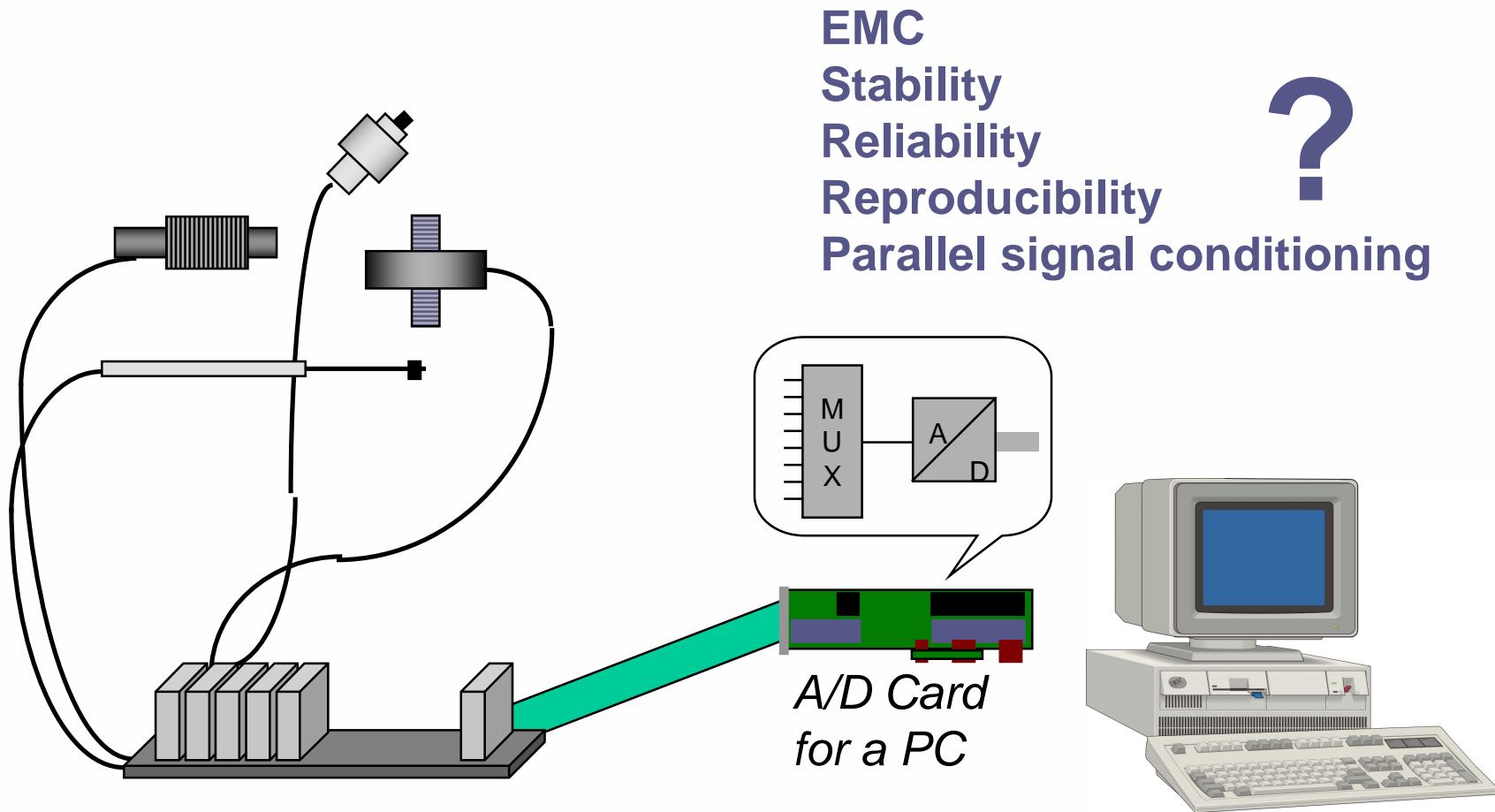


measurement with confidence

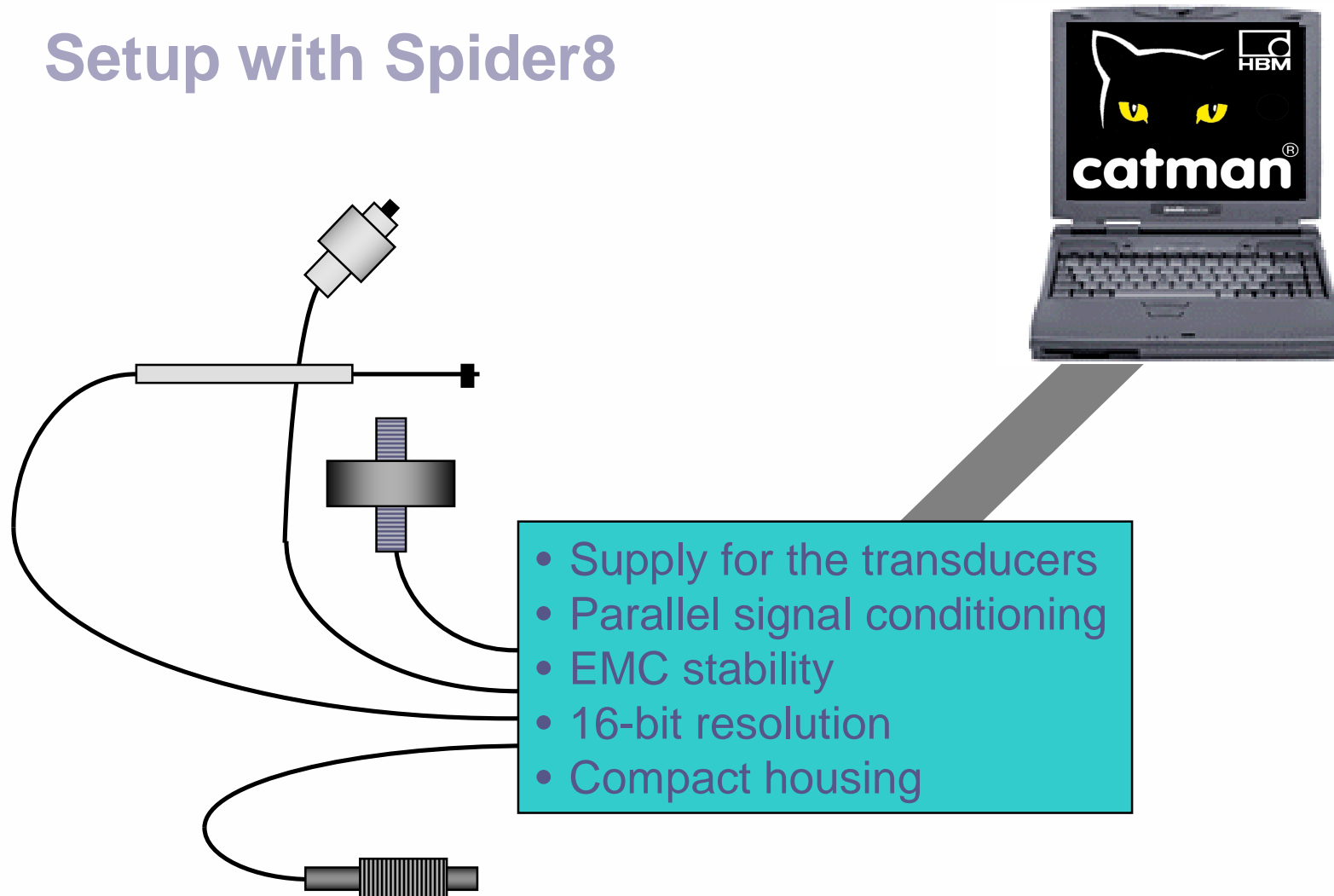
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[www.hbm.com](http://www.hbm.com)

# Conventional setup of measurement chain



## Setup with Spider8



## Universal - Transducer connection

- Strain gauges (full- and half-bridge), inductive and piezoresistive transducers with 4,8kHz carrier frequency amplifier
- Strain gauges (especially quarter bridges) with 600Hz carrier frequency amplifier
- Thermocouples, Pt100, Resistance, voltage and current with DC amplifier
- Frequency and counter
- Connected via shielded plugs





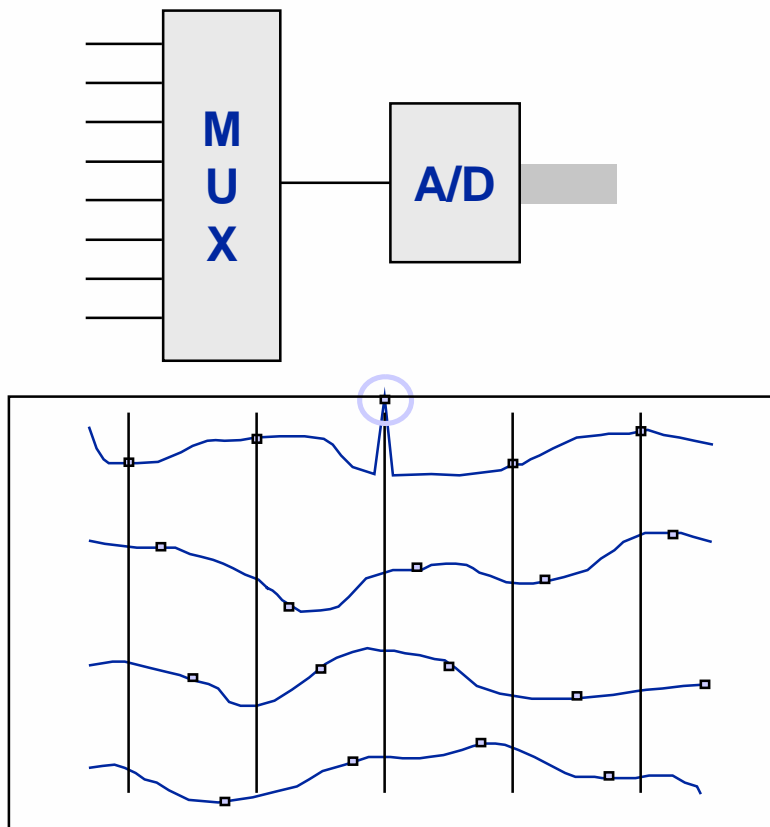
## Parallel signal processing

- 8 parallel A/D converters, no sample & hold and multiplexing
- absolute synchronous A/D converting
- No aliasing effects
- 16 bit resolution with a sampling rate of 9600 per channel

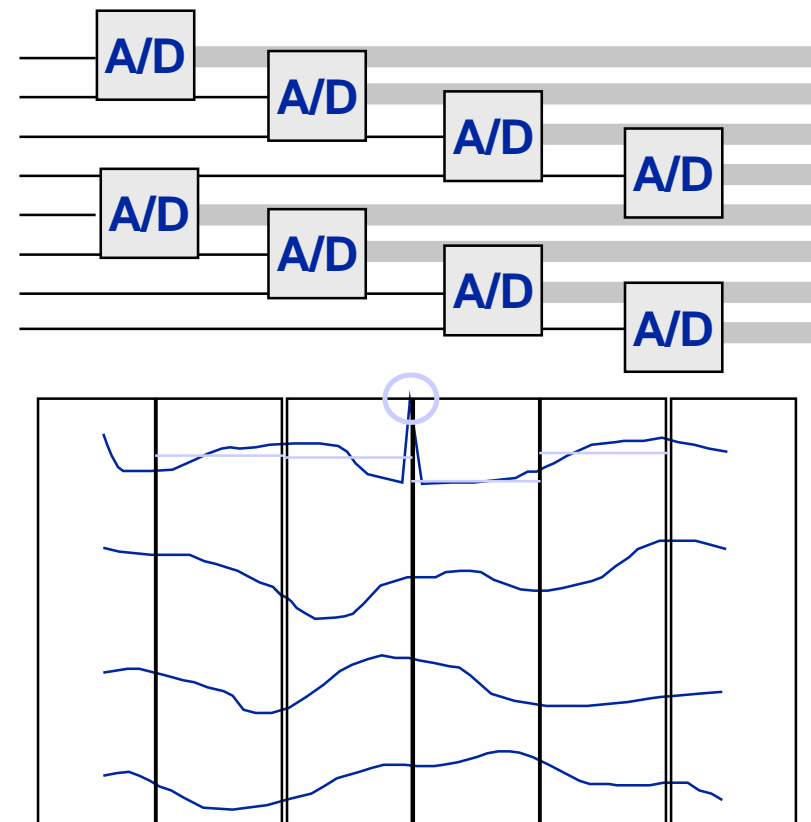
**High stability,  
easy signal analysis,  
9600Hz sampling rate  
1200Hz bandwidth**

# Advantage of parallel signal conditioning

## Conventional A/D card



## Spider 8 from HBM



## Interface to PC



- Serial interface RS232 (5.000 Meas/s)
- Parallel interface LPT1 (70.000 Meas/s with EPP mode)
- HBM-USB interface (adapter) app. 150.000 Meas/s)
- No additional card required like IEEE- oder PC card
- Cascading several units via printer port

**No additional costs for the user**

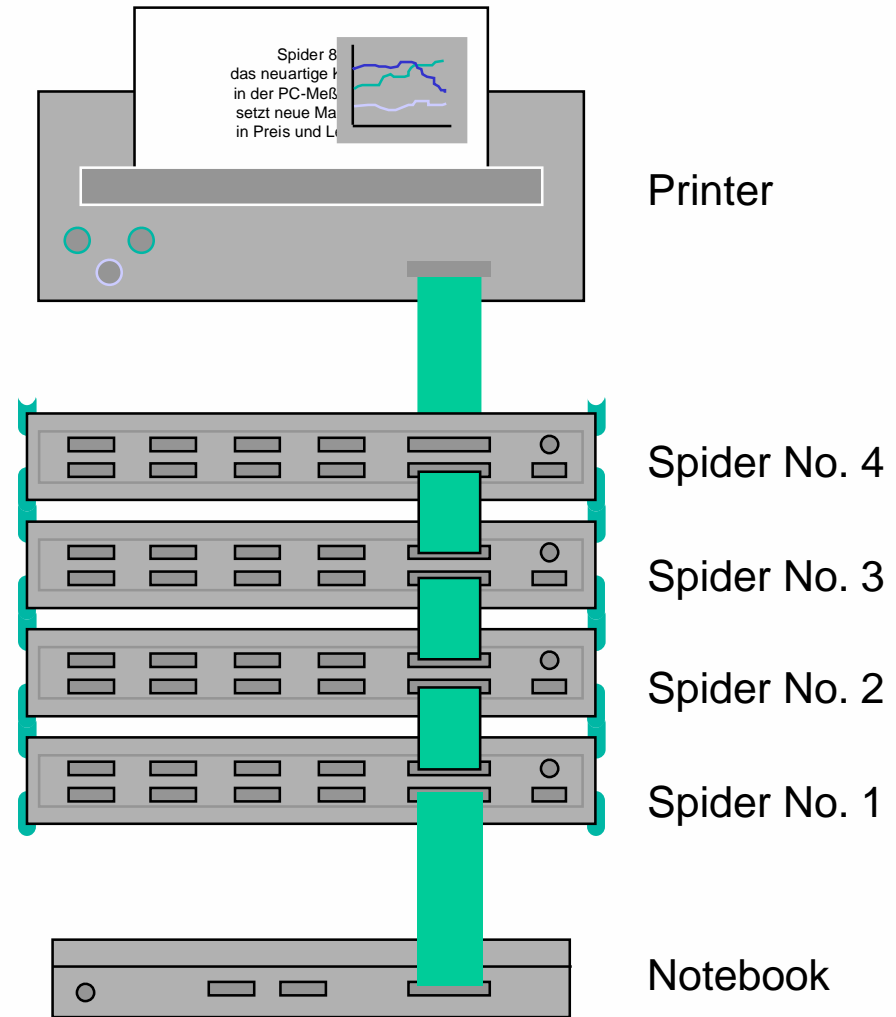
**Easy upgrading up to 64 channels with one interface**

**Printer port still available**

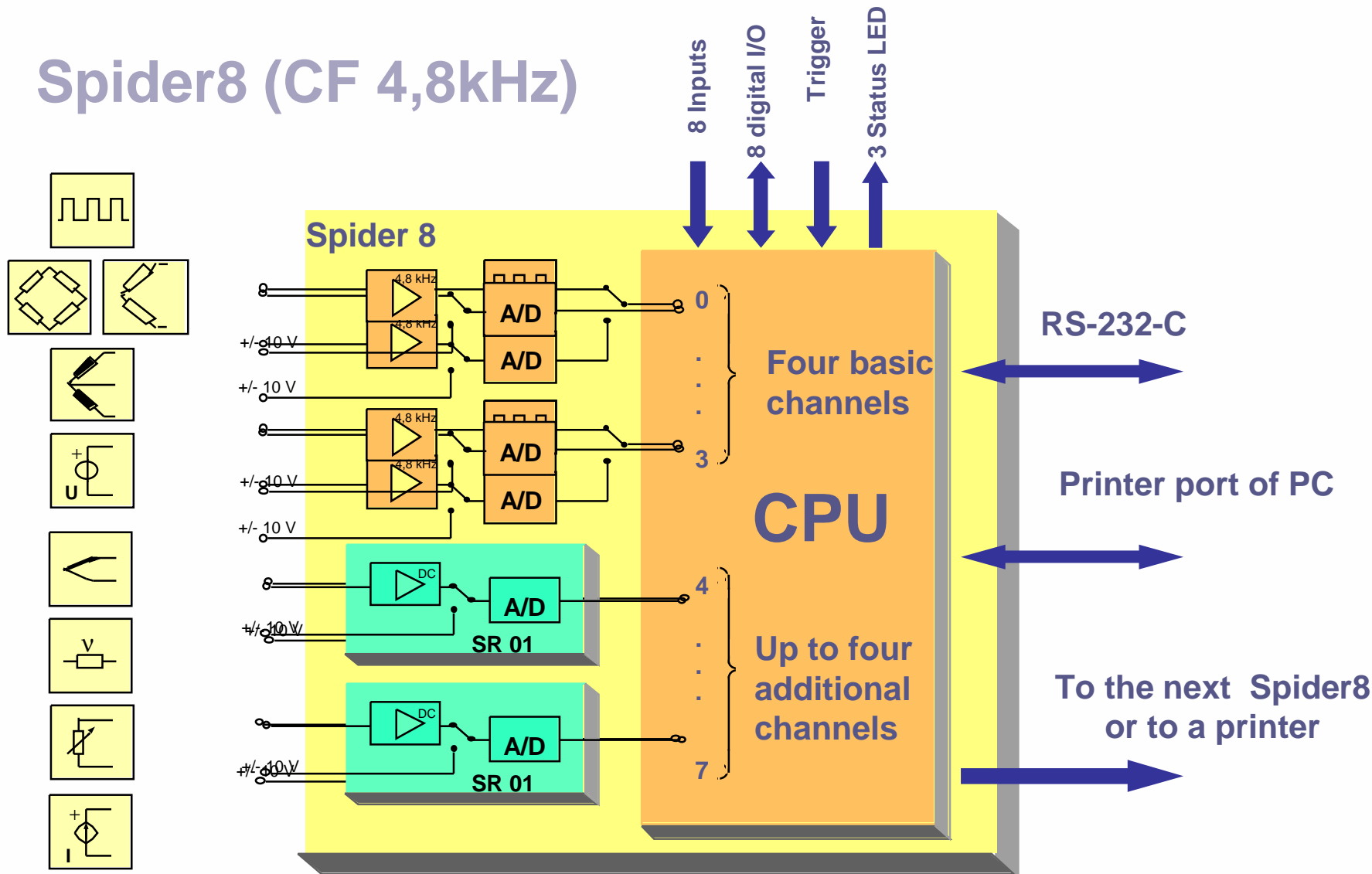
# Spider8 - the friendly alternative for PC based measurement



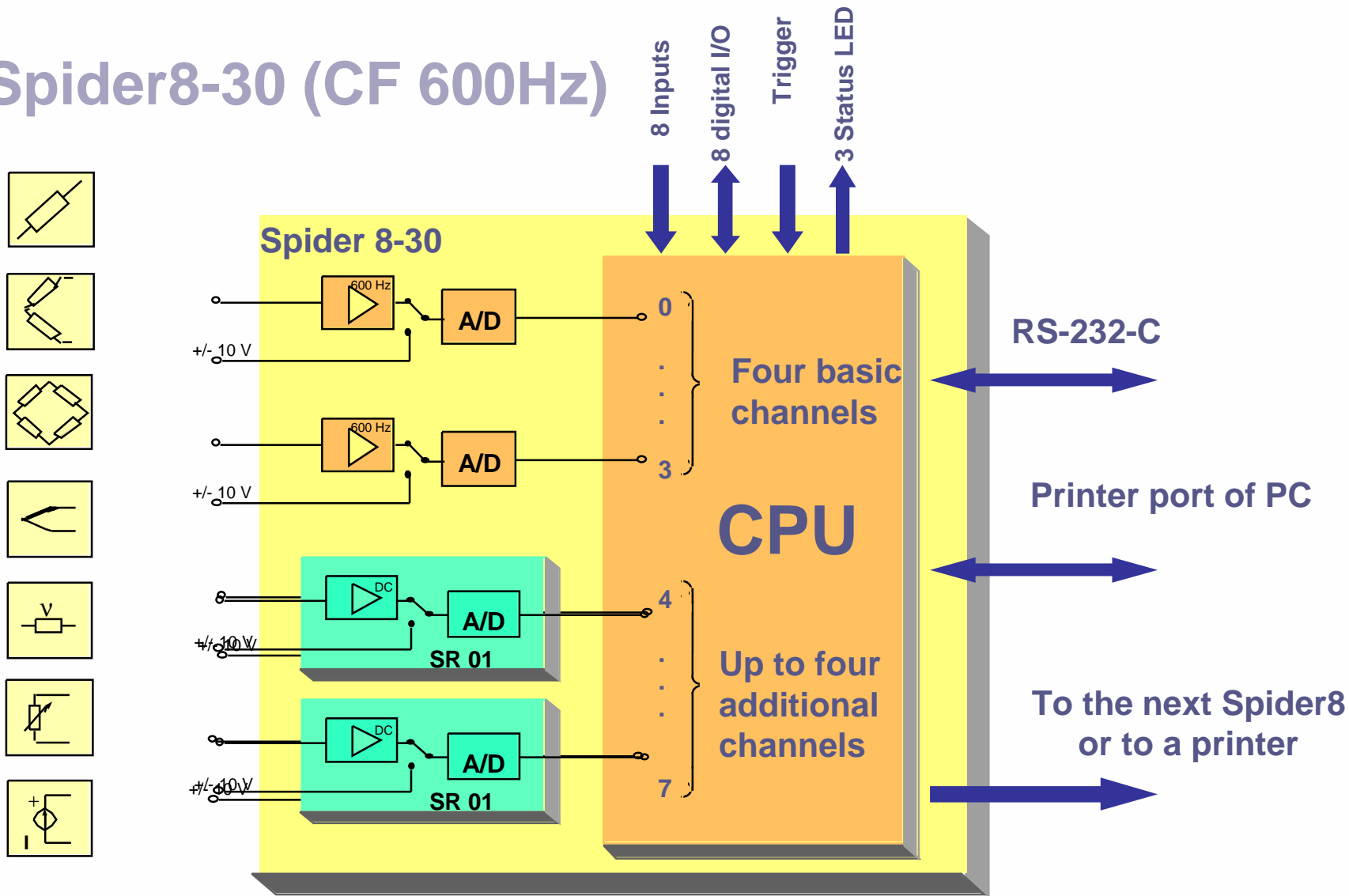
## Cascading



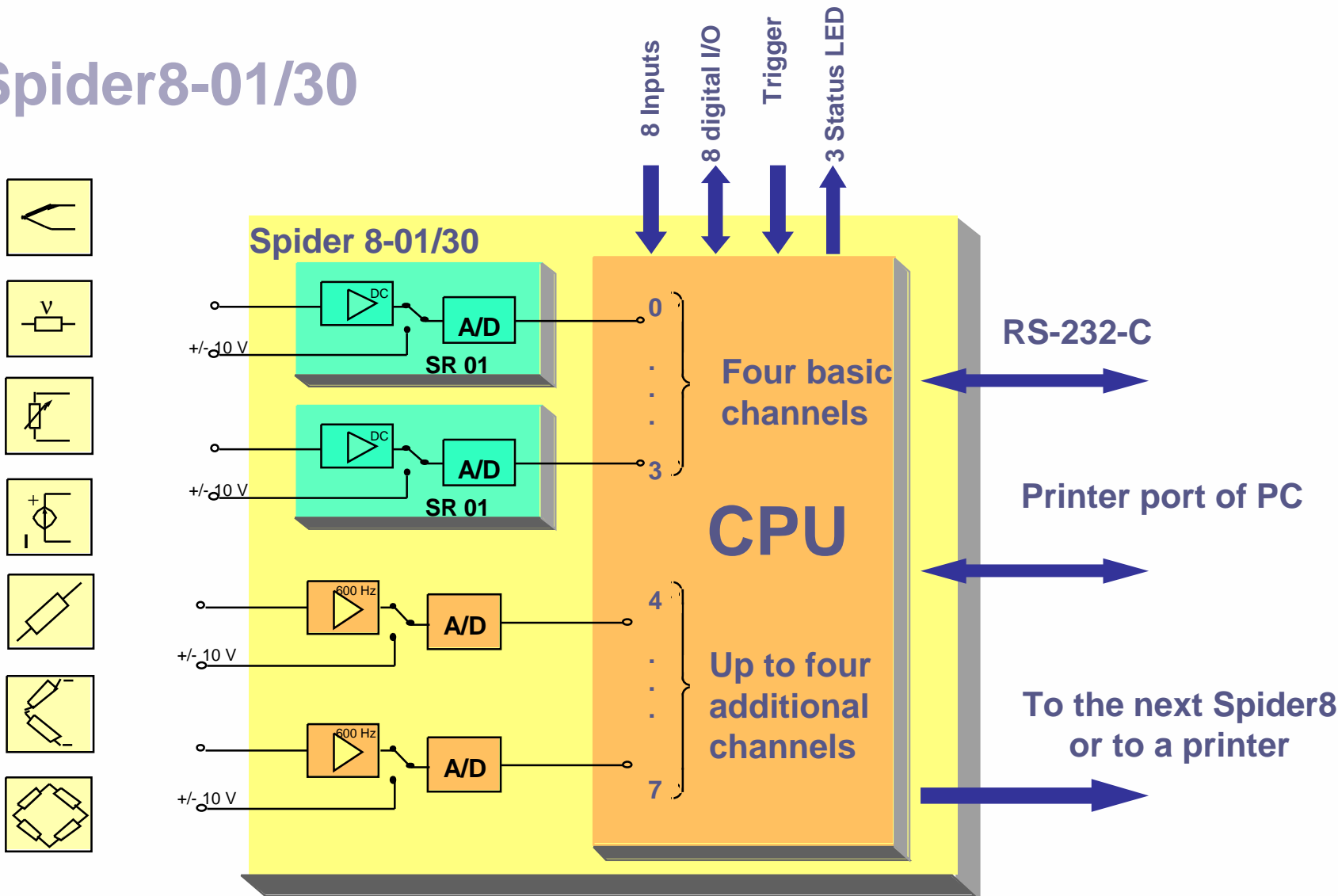
# Spider8 (CF 4,8kHz)



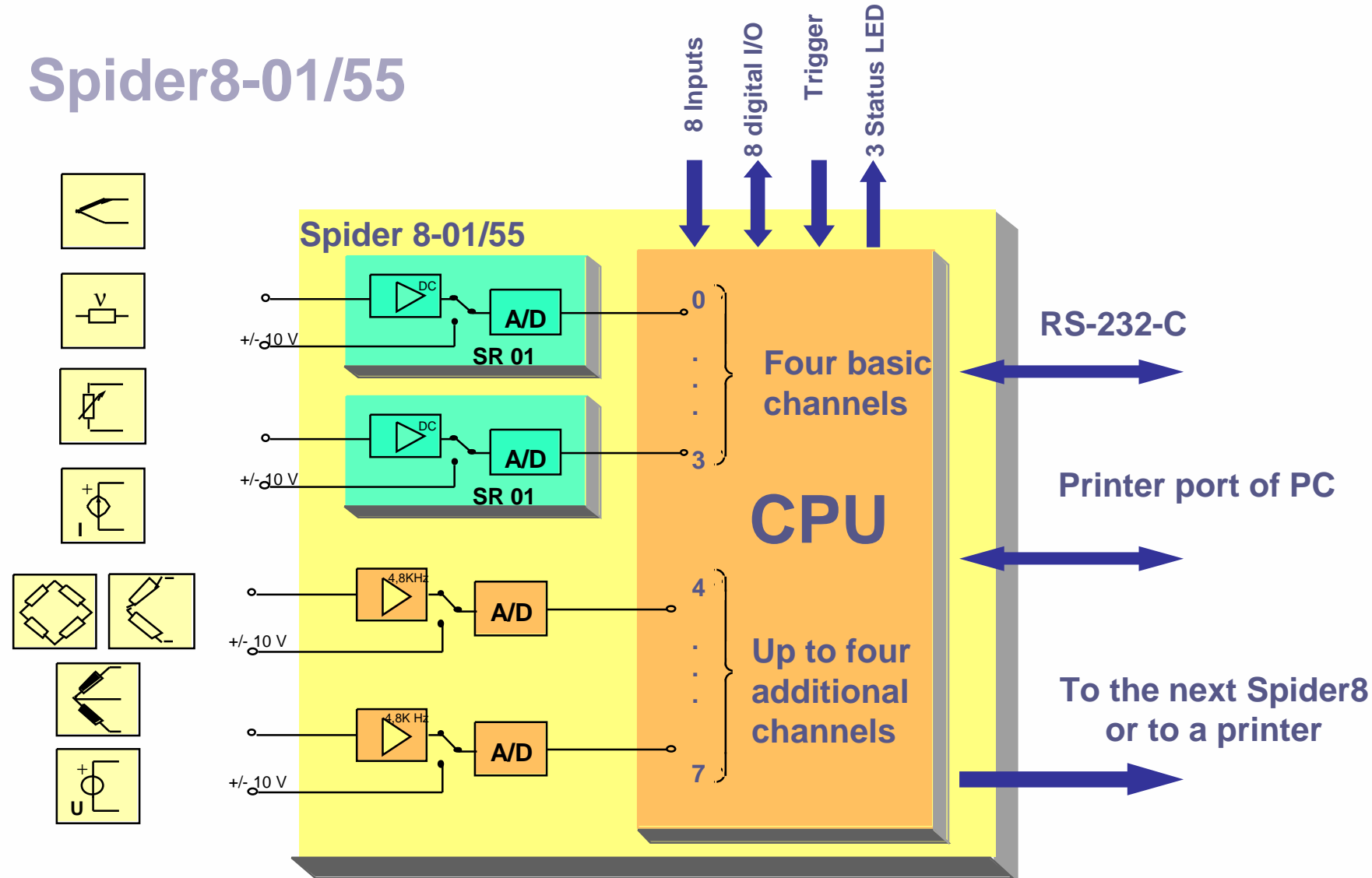
# Spider8-30 (CF 600Hz)



# Spider8-01/30



# Spider8-01/55







## Overview of modules

### SPIDER8... / measuring module combinations

	SR01	SR30	SR55
SPIDER8	●		●
SPIDER8-30	●	●	
SPIDER8-01/30	●	●	
SPIDER8-01/55	●		●



## Overview of measuring ranges

Type	Unit	SR55 (CF 4,8 kHz)	SR30 (CF 600Hz)	SR01 (DC)
SG/inductive	mV/V	±3; ±12, ±125; ±500		—
Voltage	V	±10		±0,1; ±1; ±10
Current	mA	—		±20; ±200
Resistance	Ω	—		400; 4000
Frequency	kHz	0,1; 1;10; 100; 1000	—	—
Period length	s	0,01; 0,1; 1; 10; 100	—	—
Counter	d	25.000; 2.500.000	—	—



## Software, available for Spider8

**Setup-Program**

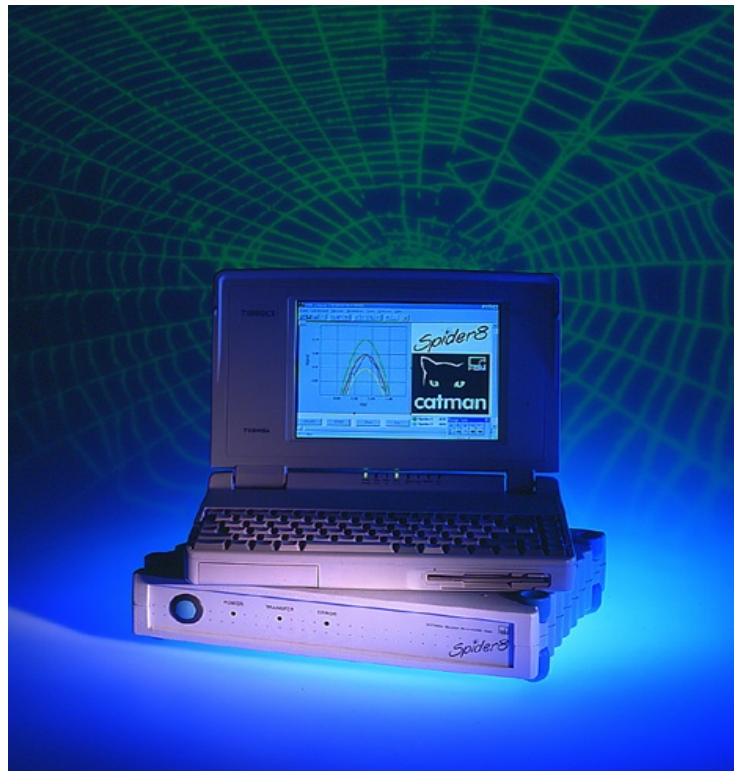
Configuration of measurement settings



**catman easy** Data acquisition, visualization and import & export

**Catman professional** Tools for evaluation and development of user defined applications

**Thank you ...**  
**... For your attention**



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