

Spider8, Spider8-30 Spider8-01

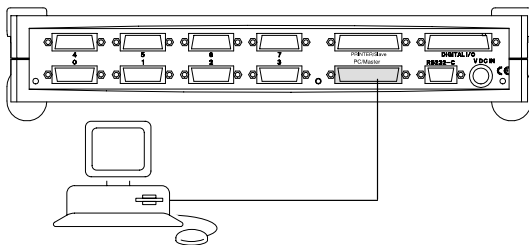
PC-Measurement
Electronics

Special features

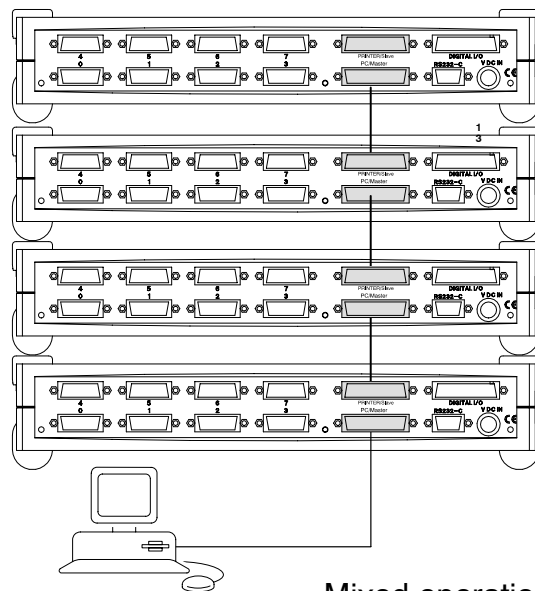
- Simultaneous measurement acquisition
- High sampling rate at 16-bit resolution
- Optional digital filters
- Calibrated complete measuring-chain
- Easy to operate and configure
- No PC intervention required
- Up to 64 channels can be cascaded
- EMC-tested metal housing
- Compensating resistors with shunt calibration (Spider8-30)



Individual and mixed operation of all device types



Individual operation



Mixed operation

Example:

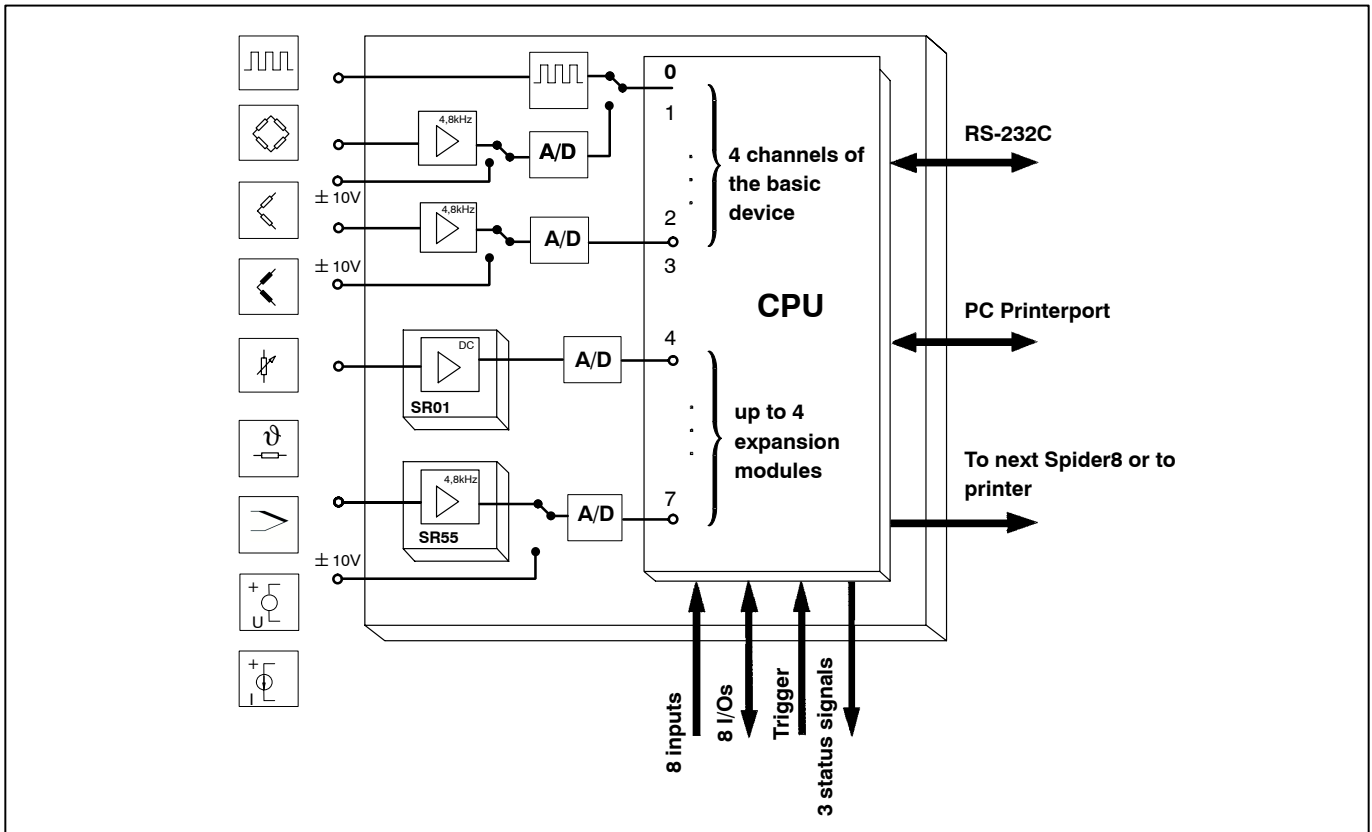
Spider8-01

Spider8-30

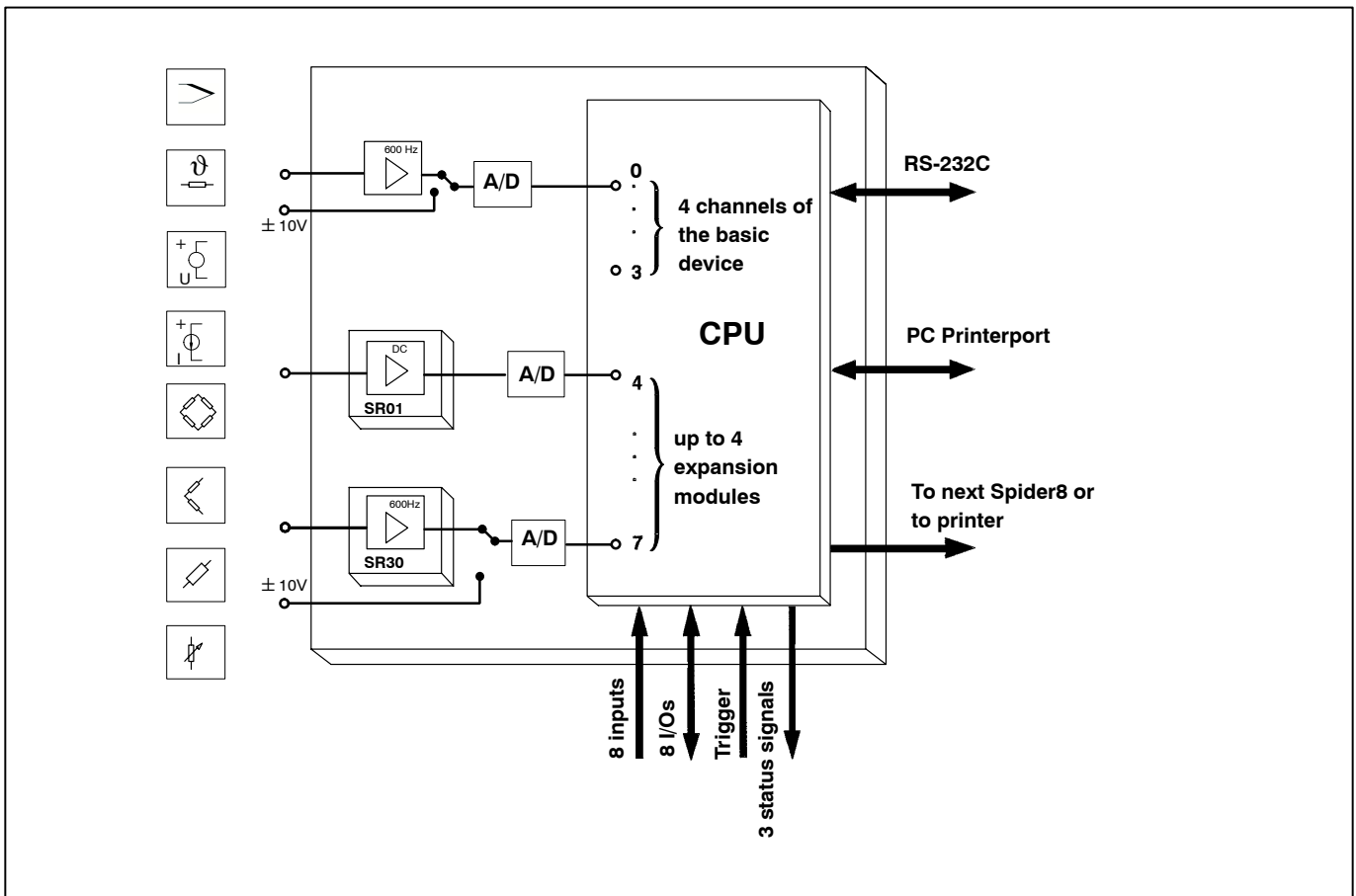
Spider8-30

Spider8

Specifications

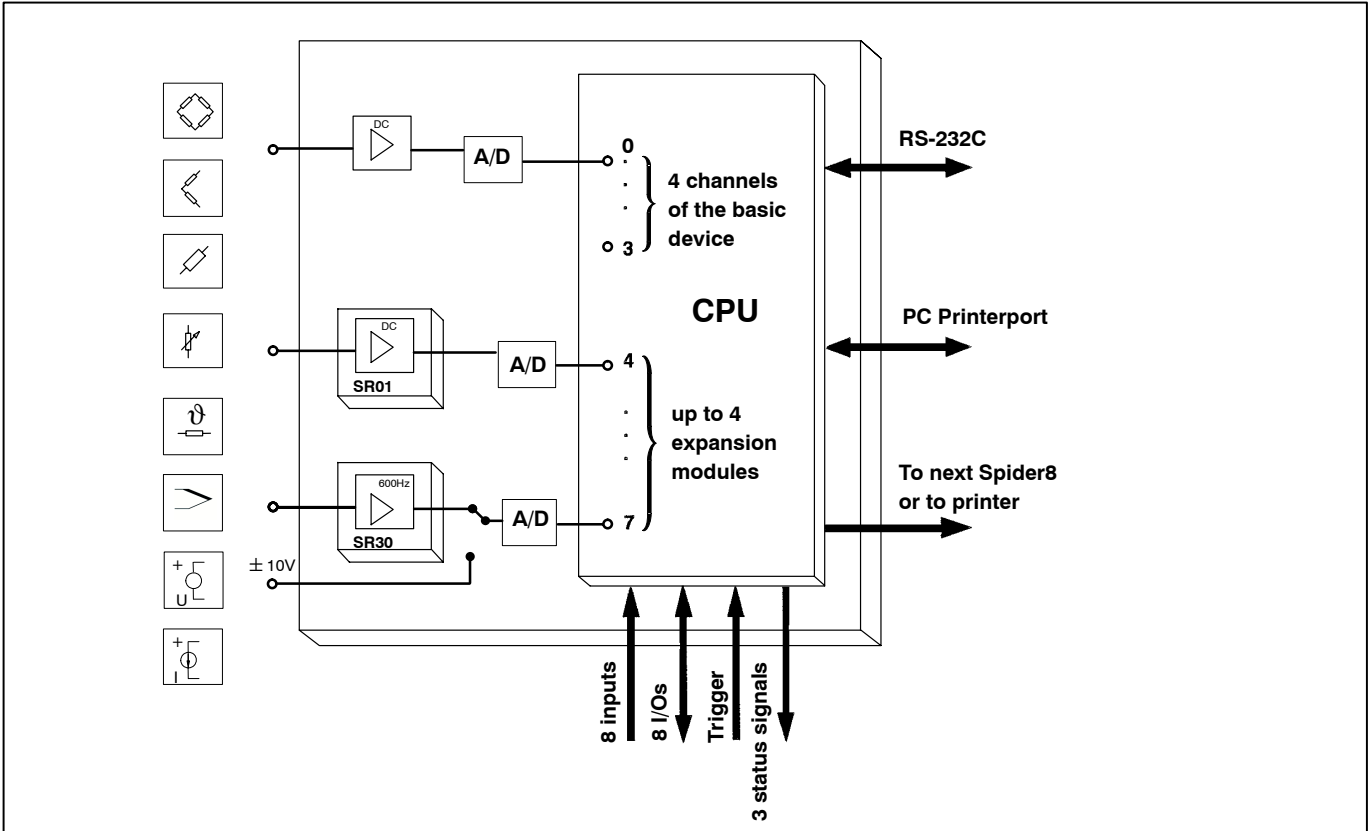


Diagrammatic view of measurement signal processing in a *Spider8*

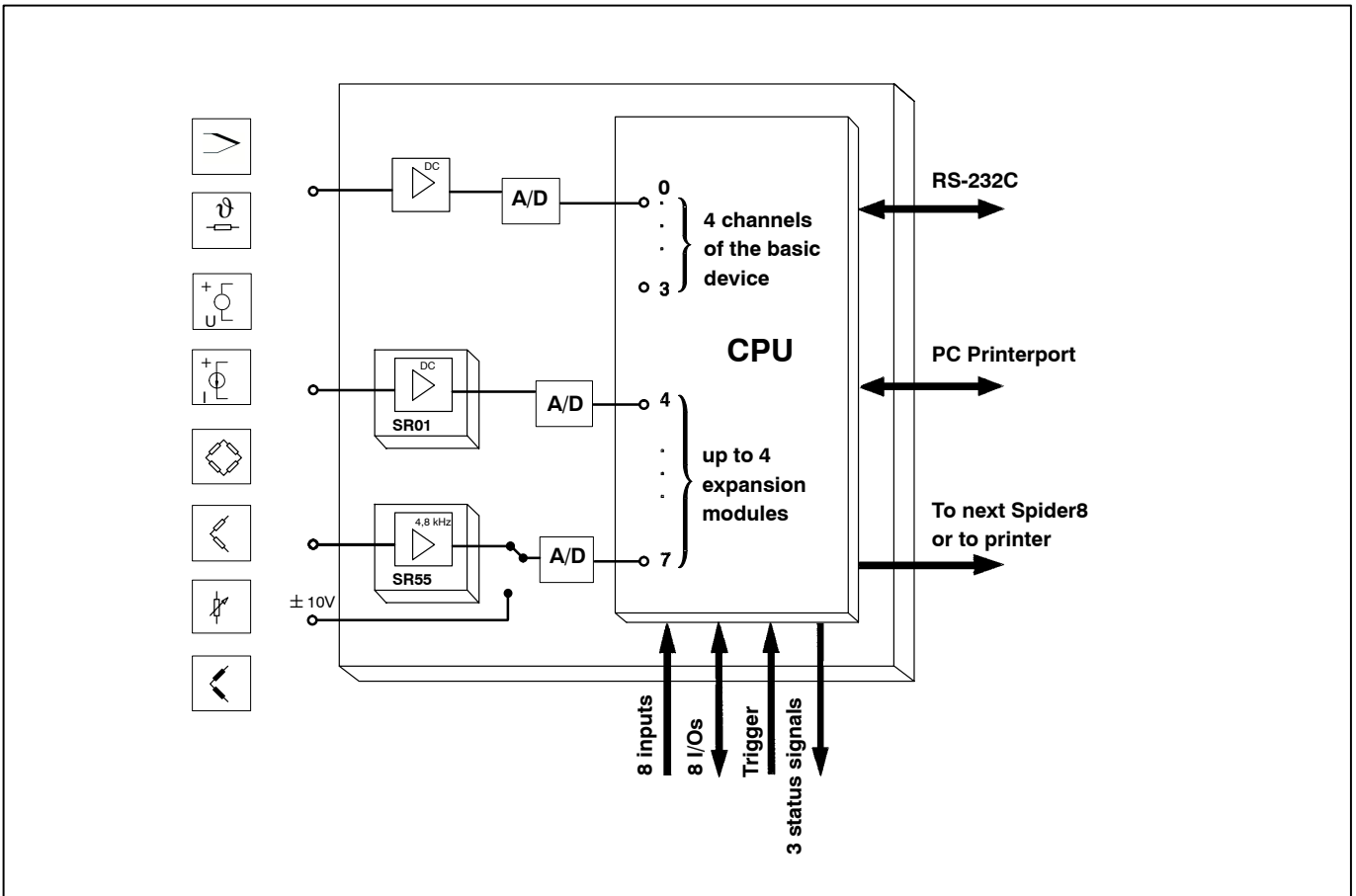


Diagrammatic view of measurement signal processing in a *Spider8-30*

Specifications



Diagrammatic view of measurement signal processing in a *Spider8-01/30*



Diagrammatic view of measurement signal processing in a *Spider8-01/55*

Specifications

Series		Spider8 / SR55	Spider8-30 / SR30	Spider8-01 / SR01
Accuracy class		0.1		0.2
Digital resolution in the case of final value of the measuring range	Digit	± 25000		
Measured value buffer	Meas	< 20000		
Transfer rate:				
serial	Baud	600, 1200, 2400, 4800, 9600 , 19200, 38400, 57600		
parallel ¹⁾	Nibble mode	Meas/s > 6500		
	8Bit mode	Meas/s > 19000		
	Byte mode (two-way)	Meas/s > 24000		
	EPP mode	Meas/s > 76000		
USB	view data sheet USB	-		
Sampling rate (21 levels) per channel	1/s	1...9600		
Digital filter				
Aperiodic	Hz	0.1		
Average value	Hz	Sampling rate/8 to sampling rate/4		
Butterworth (4th order)	Hz	0.1...1200	0.1...200	0.1...1200
Bessel (4th order)	Hz	0.1...1200	0.1...200	0.1...1200
Number of amplifiers		4/1	4/1	1
Transducers that can be connected		Strain gauge and ind. full bridge/half bridge	S/G full bridge / half bridge/ quarter bridge	-
		DC voltage sources		
		-		DC power sources Resistors Thermocouples
	Channel 0 ²⁾ and 1 ²⁾	Pulse/frequency 2-phase sensor	-	
Transducer current feed	mA			0.25
Transducer excitation voltage	V _{rms}	2.5		-
Carrier frequency (sine / symmetric)	Hz	4800	600	-
Transducer resistance	Ω	110...1100		-
Compensating resistors	Ω	-	120, 350, 700	-
Shunt calibration signal	mV/V	-	1	-
Transducer cable length up to	m	50		
Dimensions (W x H x D) Housing	mm	330 x 75 x 270		
Measuring ranges				
Strain gauge / Ind. transducer	mV/V	± 3; ± 12; ± 125; ± 500		
Voltage	V	± 10		± 0.1; ± 1; ± 10
max. differential input voltage	V	-		± 15
max. permissible common-mode voltage (differential voltage input-ground)	V	-		50
input resistance	MΩ	-		1
Current	mA	-		± 20; ± 200
Resistance	Ω	-		400; 4000
Frequency ²⁾	kHz	0.1; 1; 10; 100; 1000	-	-
Period length ²⁾	s	0.01; 0.1; 1; 10; 100	-	-
Counter ²⁾	d	25,000; 2,500,000	-	-

1) Depends on the power and hardware of the PC.

2) Only for the *Spider8* basic device (channels 0 and 1)

3) Transmission format: counter/100

Accessory:

Subcon 5 (2-9278.0346) Socket for SR01 (included in delivery)

DP15P (2-3312.0182) Sub-D connector for SR30/SR55

USB/Adapt (see separate data sheet)

Modifications reserved.

All details describe our products in general form only. They are not to be understood as express warranty and do not constitute any liability whatsoever.

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