

14 LOGBOX SE POSSIBILITIES AND EXAMPLES

The LOGBOX SE can handle simultaneously:

- 4 sensors on the **differential** inputs AIN9 – AIN12
- 4 sensors on the **single ended** inputs AIN1-4
- 4 **digital** sensors (freq, count, time) on the digital inputs DIN1-4
- 8 **SMART** sensors on RS-485

Kipp & Zonen sensors need:

Sensor model	Always needed	Optional	Remark
CMP3, CMP6, CMP10, CMP11	1x differential		
CMP21 , CMP22 with 10k thermistor	1x differential	1x single ended temperature measurement	
CMP21 , CMP22 with Pt-100	1x differential	2x differential temperature measurement	Only 1x differential left
CGR3 , CGR4 with 10k thermistor	1x differential	1x single ended temperature measurement	
CGR3 , CGR4 with Pt-100	1x differential	2x differential temperature measurement	Only 1x differential left
CHP1 with 10k thermistor used	1x differential	1x single ended temperature measurement	
CHP1 with Pt-100 used	1x differential	2x differential temperature measurement	Only 1x differential left
CMA6 , CMA11	2x differential		
Albedometers with 2x CMP	2x differential		
CUV5	1x differential		Up to 2V output signal
UVS A, B and E	1x single ended Input AIN3 or AIN4	1x single ended temperature measurement	Radiation & temperature use AIN3 & 4. One sensor possible
NR2 Lite	1x differential		
CNR4	4x differential	1x single ended temperature measurement	Pt-100 not possible
PQS1	1x differential		
CSD3	1x digital for sunshine signal	1x single ended for DNI is optional	Max 1x sunshine duration on input DIN4
SMART SMP, SHP , SGR , SUV	Unique Modbus® address		Max. 8 sensors supported
CVF4, CNF4 ventilation unit (fan)		1x digital	Max. 3 supported, 4 th digital input is for CSD3

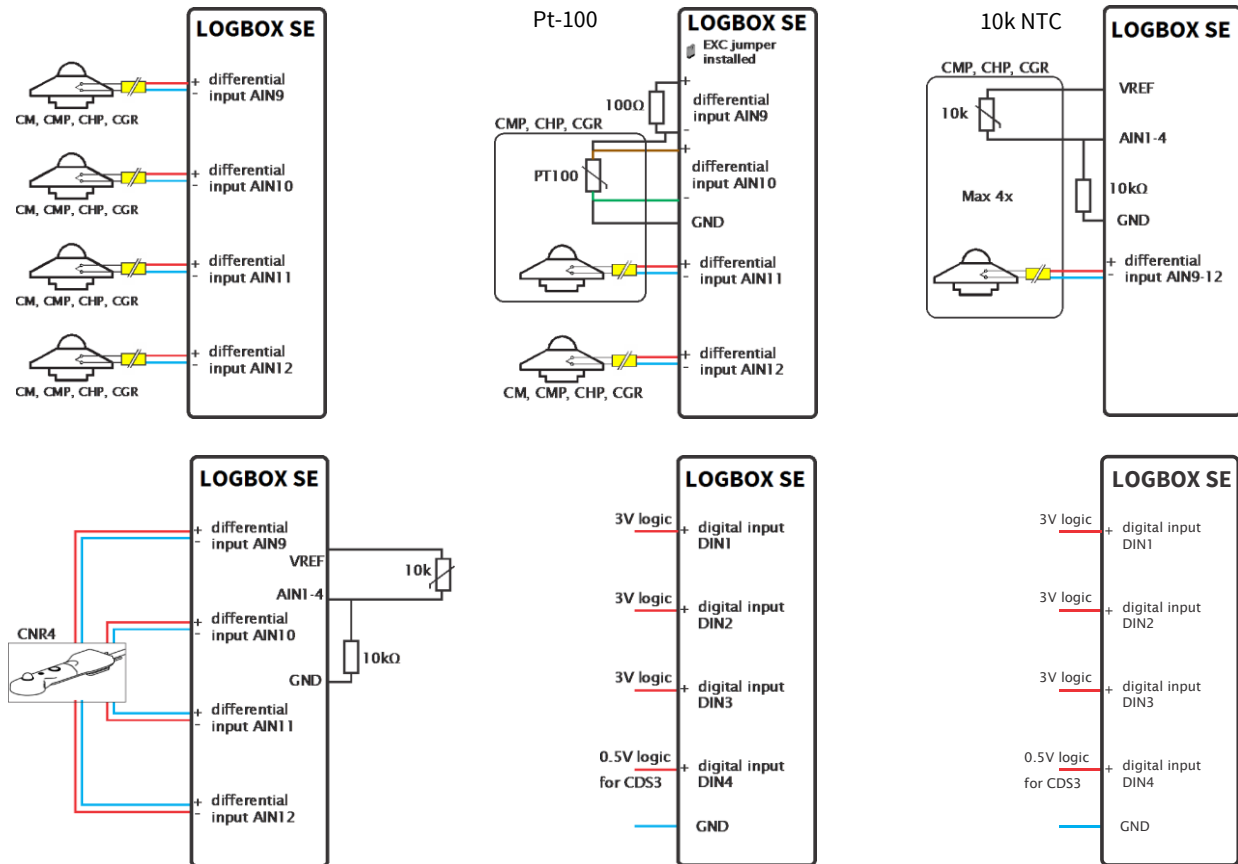
Your requirements:

Differential + + +	Max 4
Single ended + + +	Max 4
Digital + + +	Max 4

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Examples.

All inputs can be used at the same time.



Your planned setup:

Instrument model	Instrument number	Inputs needed (diff, single ended, digital)	Input used	Serial number	Sensitivity
	Nr.				
	Nr.				
	Nr.				
	Nr.				
	Nr.				
	Nr.				
	Nr.				
	Nr.				
	Nr.				

Examples:

Instrument model	Instrument number	Inputs needed (diff, single ended, digital, RS-485)	Input used	Serial number	Sensitivity
CMP10	Nr 1	Differential	AIN12	16005231	9.56
CMP22 Pt100	Nr 2	3x Differential	AIN9/10 and 11	16006354	9.78
<i>Small BSRN</i>					
CMP10 GHI	Nr 1	Differential	AIN9	16005231	9.56
CMP10 DHI	Nr 2	Differential	AIN10	16005232	9.58
CHP1 DNI	Nr 3	Differential	AIN11	16009835	9.47
CGR4 10k	Nr 4	Differential + SE	AIN12 + AIN1	15006893	9.86
<i>Optional</i>					
fan1 CMP10 tachometer	Nr 1F	Digital	DIN1	15689542	n.a.
fan2 CMP10 tachometer	Nr 2F	Digital	DIN2	15689544	n.a.
fan3 CGR4 tachometer	Nr 3F	Digital	DIN3	15689546	n.a.
<i>SMART only setup</i>					
SMP10	Nr 1	RS-485	Address 2	16003569	n.a.
SMP10	Nr 2	RS-485	Address 3	16003540	n.a.
SHP1	Nr 3	RS-485	Address 5	15012398	n.a.
SGR4	Nr 4	RS-485	Address 4	16005874	n.a.
<i>Optional</i>					
fan1 SMP10 tachometer	Nr 1F	Digital	DIN1	15689542	n.a.
fan2 SMP10 tachometer	Nr 2F	Digital	DIN1	15689542	n.a.
fan3 SGR4 tachometer	Nr 4F	Digital	DIN3	15689546	n.a.
<i>Optional</i>					
SMP10 reflected	Nr 8	RS-485	Address 6	16003549	n.a.
SGR4 up welling	Nr 9	RS-485	Address 7	16005878	n.a.
No tachometer possible					