

DataLab IO - Module selection Chart

	Analog input				Analog output	Digital input		Digital output			Multifunction		Counter		
	AI1 (unavailable)	AI2 (unavailable)	AI3	RTD1	AO1	DI1	DI2	DO1	DO2	DO3	AD1	AD2	CNT1	CNT2	
Input	Analog	8	8	8	4						4	4			
	Digital					8	8				4 (selectable)	2 (selectable)	4/2 counters	1 incr.counter	
	Resolution	16 bit	16 bit	16 bit	16 bit						16 bit	16 bit	24 bit	32 bit	
	Isolation	yes	yes	yes	yes		yes	yes				yes	yes	yes	yes
	Analog Range	±0.625V...±20V, 0÷20mA	±1.25V...±10V, ±10mA, ±20mA	±0.1V...±10V, 0÷0.1V...0÷10V, ±1mA...±20mA, 0÷1mA...0÷20mA	-50÷50°C, -50÷150°C, 0÷100°C, 0÷200°C, 0÷400°C							±0.1V...±10V, 0÷0.1V...0÷10V, ±1mA...±20mA, 0÷1mA...0÷20mA	±0.1V...±10V, 0÷0.1V...0÷10V, ±1mA...±20mA, 0÷1mA...0÷20mA		
	Digital Range						module DI1L: L=0÷1V, H=3÷18V (1k) module DI1H: L=0÷3V, H=8÷35V (4k7)	module DI2L: L=0÷1V, H=3÷18V (1k) module DI2H: L=0÷3V, H=8÷35V (4k7)				L=0÷1V, H=2÷5V (0,47k) or L=0÷3.5V, H=7÷30V (5k17)	L=0÷1V, H=2÷5V (0,47k) or L=0÷3.5V, H=7÷30V (5k17)	L=0÷1V, H=3÷8V (0,33k) or L=0÷2V, H=8÷30V (1k33)	L=0÷1V, H=3÷8V (0,33k) or L=0÷2V, H=8÷30V (1k33)
	Type	differential, bipolar / unipolar	differential, bipolar / unipolar	differential, bipolar / unipolar	Pt100, Pt1000, Ni1000		AC/DC, any polarity	AC/DC, any polarity, single ended, wet or dry contact				A/D: differential, bipolar / unipolar DI: AC/DC, any polarity	A/D: differential, bipolar / unipolar DI: AC/DC, any polarity	active L or H	mode: quadr. counter, UP/DOWN counter, pulse/direction counter
Max. frequency	50Hz/input, 200Hz single input	50Hz/input, 200Hz single input	50Hz/input, 200Hz single input	50Hz/input, 200Hz single input		200Hz	200Hz				A/D: 50Hz/input, 200Hz single input, DI: 200Hz	A/D: 50Hz/input, 200Hz single input, DI: 200Hz	25kHz (rate 1:1)	25kHz (rate 1:1)	
Output	Analog				8										
	Digital							8	8	8	4 (selectable)	2 (selectable)	2x ALARM	2x ALARM	
	Resolution											8 bit			
	Isolation					ano		ano	ano	ano	ano	ano	ano	ano	
	Range / Load					0÷10V, 0÷20mA (4 selectable outputs)			60V/3A AC, 30V/3A DC	max. 60V, max. 250 mA	max. 50V, max. 800 mA (all outputs), 500mA (1output)	max. 60V, max. 250 mA	0÷10V, 0÷20mA	max. 150mA, max. 350V, max. 150 mW	max. 150mA, max. 350V, max. 150 mW
	Type					single ended, unipolar			relay	open collector	open collector, common GND	DO: open collector	D/A: common GND, unipolar, DO: open collector	open collector	open collector
Max. frequency					200Hz			50Hz	200Hz	200Hz	200Hz	200Hz			