

# KiDAQ measurement modules overview

Measurement module type	5501A	5502A	5503A	5505A	5506A	5507A	5509A	5512A	5514A	5517A	5518A	5521A	5522A	5525A	5526A	5528A	5529A	5534A	5535A	
Analog input channels	2	4	4	8	8	8	4	4	8	8	2	8	4	4	4	4	4	-	-	
Digital input channels	2	-	-	2	2	-	-	-	-	-	4	-	-	-	-	-	-	8	6	
Sampling rate per channel (S/s)	100 k	20 k	20 k	20 k	20 k	20 k	100 k	100 k	20 k	20 k	20 k	100	10	20 k	100 k	100 k	100 k			
Analog signals	Voltage	■	■	■	■ < 10 V	■ < 60 V	■		■	■			■ < 80 mV							
	Voltage (isolated 1.2 kV)														■	■	■			
	Voltage (range up to 1.2 kV)																■	■		
	Current	■	■	■	■		■									■	■			
	Resistance	■	■	■										■						
	Potentiometer	■	■	■																
	Pt100, Pt1000 (RTD)	■	■	■										■						
	Thermocouples	■	■										■							
	Thermocouples (isolated 1.2 kV)														■					
	Strain gauges	■	■	■							■	■								
	Inductive full and half bridges											■								
	LVDT (Displacement)											■								
	Piezoelectric sensors							■												
	IEPE sensors (Piezotron)	■		■					■											
	MEMS capacitive sensors (K-Beam)									■										
Piezoresistive pressure transmitters (PRT)						■														
Digital signals	Frequency																	■	■	
	Pulse width																	■	■	
	Counter signal																	■	■	
	Time																	■	■	
	Status	■			■	■						■							■	■
Sensor supply			■			■			■										■	