

KRYPTON® 1 WATERPROOF SPECS

	AO	DI	DO	ACC	STG	LV	HV	TH-HV	CNT
Connector	BNC	DSUB15HD Male	DSUB15HD Female	BNC	DB9	BNC	Banana jack	K-type Thermocouple LEMO REDEL	LEMO T-type 7pin female
Number of channels per module	1	4	4	1	1	1	1	1	1
Data rate per channel	X	40 kS/s	X	40 kS/s	40 kS/s	40 kS/s	40 kS/s	100 S/s	20 kS/s
Resolution	18 bit	Digital	Digital	24-bit	24-bit	24-bit	24-bit	24-bit	100 MHz timebase 5 ppm, 20 ppm max
Bandwidth	X	X	X	0.49 fs	0.49 fs	0.49 fs	0.49 fs	0.49 fs	10 MHz
Voltage ranges	X	Digital (Low: < 1 V, High: > 2 V)	X	±10 V, ±5 V, ±1 V, ±200 mV	±50 V, ±10 V, ±1 V, ±100 mV	±50 V, ±10 V, ±1 V, ±100 mV	±1000 V	Thermocouple	TTL (Low: <0.8 V, High > 2 V)
Input coupling				DC, AC 0.1 Hz, 1 Hz	DC, AC 1 Hz	DC, AC 1 Hz	DC		
Sensor excitation	±10 V	X	X	IEPE 4 mA, 8 mA	Unipolar 0 - 24 V Bipolar 0 - 12 V	X	X	X	5 V (100 mA max.), 12 V (90 mA max.)
Bridge connection	X	X	X	X	Full, ½, ¼ 350 Ω, ¼ 120 Ω 3 wire	X	X	X	X
Programmable shunt	X	X	X	X	100 kΩ	X	X	X	X
IEPE input	X	X	X	✓	DSI-ACC	X	X	X	X
Resistance	X	X	X	X	✓	X	X	X	X
Temperature (PTx)	X	X	X	X	DSI-RTD	X	X	X	X
Thermocouple	X	X	X	X	DSI-TH	X	X	K-type	X
Current	X	X	X	X	20mA (internal shunt), DSI-5A, ext. shunt	ext. shunt	X	X	X
Potentiometer	X	X	X	X	✓	X	X	X	X
LVDT	X	X	X	X	DSI-LVDT	X	X	X	X
Charge	X	X	X	X	DSI-CHG	X	X	X	X
TEDS	X	X	X	✓	✓	X	X	X	X
Isolation	None	Galvanic isolation CH, GND	Galvanic isolation CH, GND	125 Vrms Isolation CH, GND	125 Vrms Isolation CH, GND	125 Vrms Isolation CH, GND	CAT III 600 V CAT II 1000 V	CAT III 600 V CAT II 1000 V	None
Power consumption	2 W	1.5 W	2 W	2 W	3 W	1.5 W	1 W	1.3 W	1.2 W

AMPLIFIER SPECS

4xDI, 4xDO	Four channel digital I/O amplifier
1xAO	Analog output
1xCNT	Single channel SuperCounter® module
1xLV	Isolated low voltage module

1xSTG	Isolated universal and strain amplifier
1xACC	Isolated IEPE accelerometer amplifier
1xHV	Isolated high voltage module
1xTH-HV	Isolated thermocouple module (CATIII 1000 V)