

2G Enterprises

MODEL 581

DC SQUID SYSTEM

SPECIFICATIONS

Flux Noise level	5×10^{-6} Flux unit RMS/Hz ^{1/2}
Energy noise level	6×10^{-31} joules RMS/Hz
1/f Noise corner frequency	< 0.5 Hz
Input coupling inductance	1.9 μ H
Size	12 mm dia x 56 mm long
SQUID transformer turns ratio	8:1
Input coil current sensitivity	0.2 μ A/Flux unit
Modulation coil sensitivity	1.5 μ A/Flux unit
Model 581P Cryogenic Probe:	
Flexible, shielded 0.125" dia	
Integral RFI filters on all leads	
Length	122cm
Connector (to 581 H)	Winchester 9 pin
Model 581H SQUID Processor Electronics	
Center frequency	200 KHz
Input coupling transformer ratio	3:1
Voltage noise	< 0.6×10^{-9} V RMS/Hz ^{1/2}
Current noise	< 10^{-13} A RMS/Hz ^{1/2}
Internal controls	Range, reset, fast slew, modulation type
Internal adjustments (10 + potentiometers)	AC amp, gain, calibration, phase
Size	15cm x 7cm x 3.5cm
Power	± 15 VDC @ ± 150 ma
Model 581S Control/Display Console Displays and output	4 $\frac{1}{2}$ digit display of SQUID analog output 4 digit display of SQUID flux count Analog output ± 10 V for full scale Bargraph analog output
Ranges	1x ± 1 Flux unit full scale 10x ± 10 Flux unit full scale 100x ± 100 Flux unit full scale 1000x ± 1000 Flux unit full scale
Filters	(12 db/octave rolloff with selectable corner frequency at 1,10,100 Hz). The wideband output is unfiltered.
Power	110-130 VAC @ 1A or 220-260 VAC @ 0.5A; 50 or 60 Hz
Size	37cm L x 21cm W x 10cm H
Weight	11 lbs