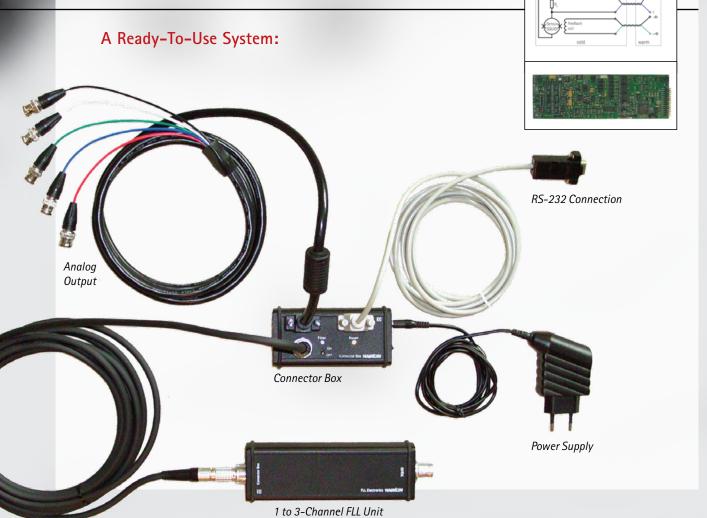


XXF-1 SQUID Electronics



XXF-1 - ultra-high bandwidth dc SQUID electronics

- Fully computer-controlled
- 20 MHz maximum FLL bandwidth and 50 MHz maximum open-loop bandwidth
- Provides adjustable bias current and calibration pulses for TES applications
- Ready for convenient two-stage SQUID operation
- Enlarged bias voltage range for SQUID series array readout
- Adaptable to virtually all measurement tasks







Technical Data

| | General | optimum choice for all types of low-Tc SQUIDs including SQUID series arrays and two-stage SQUIDs available in a standard version and a high-speed version 1 to 3 channels per electronics unit scalable up to 254 channels controlled via optically isolated RS-232/RS-485 interface LabView® software SQUIDViewer included built-in 10 bit A/D converter | |
|----|----------------------|---|---|
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| | | | |
| | | | |
| | | automatic reset, overload detection | |
| | | optional anti-alias filter: | 10 kHz ±2.5% |
| | | power consumption per channel | 1.8 W @ 15 V |
| | Bias | ■ bias current range | 0-180 μΑ |
| B. | | bias voltage range (other bias current and bias voltage ranges on request) | 0-1300 μV |
| | Aux Current Source 1 | range (high/low) (other ranges up to ± 5 mA possible) | ± 500/125 μA |
| | Aux Current Source 2 | ■ range (other ranges up to ± 5 mA possible) | ± 125 μA |
| | | ■ calibration pulse option | |
| | | ■ pulse duration time | 1-2000 μs |
| | | ■ time between pulses | 0.1-6258 ms |
| | Preamp | ■ low noise bipolar/JFET input stage | |
| | | $lacksquare$ selectable noiseless 50 Ω input impedance | |
| | | ■ white voltage noise | 0.33 nV/√Hz |
| | | ■ voltage noise @ 0.1 Hz | 0.8 nV/√Hz |
| | | ■ white current noise | 2.6 pA/√Hz |
| | | current noise @ 0.1 Hz | 40 pAJ√Hz |
| | FLL Mode | maximum FLL bandwidth | 20 MHz (6 MHz in standard version) |
| | | ■ fast external integrator reset | <1 μs |
| | | output coupling | ac or dc |
| | | analog output signal range | ±10 V |
| | Amp Mode | adjustable gain | 1100 to 2000 |
| | | ■ adjustable bandwidth | dc-0.2 MHz to dc-50 MHz (dc-0.2 MHz to dc-6 MHz in standard version) |
| | Heater | ■ voltage | +13 V |
| | | ■ maximum current | 300 mA |

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$\textbf{SQUIDV} iewer^{\text{\tiny{TM}}} \ software \ included$

Easy access to all parameters

For more information please visit our website