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Find the *Teledyne / LeCroy 2415* at our website: ***Click HERE***

Click model number for photo

2415 HIGH VOLTAGE POWER SUPPLY

- ±3.5 or ±7 kV Scales
- 14-Bit CAMAC Voltage Programming
- ADC Voltage/Current Monitor
- 8-Bit Current Limit CAMAC Programming

FOR GENERAL PURPOSE LABORATORY APPLICATIONS

The Model 2415 is a versatile, general purpose high voltage power supply packaged in a #2 CAMAC module. The output voltage and the maximum output current can be set via front-panel multi-turn potentiometers or CAMAC programming. The front-panel voltage and current settings serve as hardware limits for the CAMAC demand values. This feature eliminates the possibility of detector damage due to inadvertent software errors or computer failures. The unit offers front-panel BNC voltage and current monitor outputs. A built-in ADC allows both to be read via CAMAC.

The 2415 offers circuit-board mounted jumpers which allow the unit to be operated in several modes. One set of jumpers selects the output polarity. The other set selects the output range, 3.5 kV or 7 kV maximum. Front-panel LEDs indicate the mode selected. The high and low level outputs are provided at separate output connectors.

When used in the ±3.5 kV ranges, the 2415 offers 0.25 V CAMAC voltage programming resolution with a voltage monitor resolution of 1 V. It provides an output current of up to 2.5 mA with current monitor resolution of 0.625 µA. When used in the ±7 kV ranges, the 2415 offers 0.5 V CAMAC voltage programming resolution with a voltage monitor resolution of 2 V. It provides an output current of up to 1.0 mA with current monitor resolution of 250 nA.

Special attention has been given to the current monitor circuitry. In the 7 kV CAMAC mode, the device can register a current of less than 1 µA.

SPECIFICATIONS

Click here for Specification Table

CAMAC COMMANDS

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Z: Clear LAM, demand voltage and current limit registers (also occurs on CAMAC power up).

Q: A Q = 1 signal for F(0) indicates A/D conversion complete and valid data at R1...R12. A Q = 1 signal for F(8) indicates LAM is set and an overload condition has occurred since the last F(10).

X: An X = 1 (command accept) is generated when a valid N, F command is received. (Some commands which are

acknowledged by X have null function. Validity of A is not taken into account.)

L: A Look-At-Me signal (if enabled by on-board jumper) indicates an overload condition has oc curred since the last F(10). L is inhibited when module is addressed.

CAMAC FUNCTION CODES

F(0): Read ADC data via R1...R12. A Q = 1 response indicates ADC conversion is complete, and data on R1...R12 is valid.

F(8): Test LAM. Q = 1 if the LAM is true.

F(10): Clear LAM. (LAM is set by overload condition.)

F(16)·A(0): Write demand voltage via W1...W14.

F(16)·A(1): Write current limit via W1...W8.

F(26)·A(0): Convert output voltage to digital value. Read by a subsequent F(0) command.

F(26)·A(1): Convert output current to digital value. Read by a subsequent F(0) command.

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