# User's Manual



# Three Output DC Regulated Power Supplies Models 382203 (Analog) and 382213 (Digital)





#### WARRANTY

EXTECH INSTRUMENTS CORPORATION warrants this instrument to be free of defects in parts and workmanship for one year from date of shipment (a six month limited warranty applies on sensors and cables). If it should become necessary to return the instrument for service during or beyond the warranty period, contact the Customer Service Department at (781) 890-7440 for authorization. A Return Authorization (RA) number must be issued before any product is returned to Extech. The sender is responsible for shipping charges, freight, insurance and proper packaging to prevent damage in transit. This warranty does not apply to defects resulting from action of the user such as misuse, improper wiring, operation outside of specifically disclaims any implied warranties or merchantability or fitness for a specific purpose and will not be liable for any direct, indirect, incidental or consequential damages. Extech's total liability is limited to repair or replacement of the product. The warranty set forth above is inclusive and no other warranty, whether written or oral, is expressed or implied.

#### Introduction

Congratulations on selecting Extech's Model 382203 (analog) or 382213 (digital) Regulated DC Power Supply. The 382203 and 382213 are solid state, compact, well regulated supplies suitable for many applications including bench testing, field service, hobby and telecommunication equipment use.

#### **Specifications**

	382203	382213
Display	Dual Analog Metering	Dual 3-digit LCD Displays
Voltage Output, DC	0-30V	
Current Output, DC	0 - 3 Amps	
Current Limiting Indicator	Status LED	
Accuracy	± 7% Full Scale	± 1% Full Scale + 2 digits
Ripple and Noise	< 5mV	
Line Regulation	< 0.05% + 10mV	
Fixed Output Voltage	5V / 0.5A (continuous); 1A (max.)	
	12V / 0.5A (continuous); 1A (max.)	
Power	110/220VAC 50/60Hz (switchable)	
Dimensions	6 x 5.6 x 9.5" (152 x 142 x 242mm) (WxHxD)	
Weight	10 lbs. (4.5 kgs)	

#### **Meter Description**

- 1. Voltage and Current LCD displays
- 2. Current limit status LED
- 3. Power switch with status LED
- 4. 5V & 12V fixed output terminals
- 5. Output terminals for variable supply
- 6. Variable voltage and current adjustment knobs



Note: The Model 382213 (LCD metering) is shown above. The Model 382203 (shown on the cover page) uses analog metering.

### Operation

- The Power Supply must be powered using the rated line voltage (110V or 220V) within + 5%.
- Before turning the power supply ON, remove all connected loads and set the Voltage Adjustment Knob to the full counter-clockwise position (0V DC output).
- To operate the power supply as a constant current supply, the current output should be set between 10% and 100% of the rated value (3A). The Current Limiting Indicator will light when the current limiting circuit is activated.
- 4. Use the Current and Voltage Adjustment knobs for setting variable Current and Voltage output signals respectively. Use Variable Output Terminals for connections.
- 5. For 5VDC and 12VDC outputs, use the Fixed Output Terminals.
- The analog or digital displays will indicate actual current and voltage outputs.
- Keep the meter's cooling vents (top and sides) clear of obstacles to prevent overheating.

#### Calibration and Repair Services

**Extech offers complete repair and calibration services** for all of the products we sell. For periodic calibration, NIST certification or repair of any Extech product, call customer service for details on services available. Extech recommends that calibration be performed on an annual basis to insure calibration integrity.



## Support Hotline (781) 890-7440

Tech support: Ext. 200; Email: support@extech.com Repair/Returns: Ext. 210; Email: repair@extech.com Website: www.extech.com

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