ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

Artisan Technology Group
(217) 352-9330 | sales@artisantg.com | artisantg.com

Full-service, independent repair center
with experienced engineers and technicians on staff.

We buy your excess, underutilized, and idle equipment
along with credit for buybacks and trade-ins.

Custom engineering
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *VX Instruments VX2702* at our website: ***Click HERE***

VXI Instruments®
the test solutions provider

VX2702 DC Source and Measurement Unit



Features

- ✓ Includes high performance DC measurement- and stimulation in one VXI-module
- ✓ DC U/I-Generator, 16Bit, ±50V_{DC} / ±100mA_{DC}
- ✓ DC Voltage Measurement , 16Bit, up to ±50V_{DC}
- ✓ DC Current Measurement, 16Bit, from nA up to ±100mA_{DC}
- ✓ Design for high speed measurements
- ✓ Fully isolated and floating inputs and outputs
- ✓ Integrated relay matrix
- ✓ Digital calibration

VX2702 DC Source and Measurement Unit

Product information:

The VX2702 is a high precision, high speed DC-Source and DC-Measurement Unit (SMU). The SMU includes one U/I-Generator (DCVS/DCCS), one DC-Voltage-Measurement Unit (VMU) and one DC-Current-Measurement Unit (CMU). All units are operating **completely independent**.

The VX2702 , C-size single slot VXI module, is designed for high throughput testing.

DCVS and DCCS:

- The U/I-Generator generates high precision and stable output voltages or currents.
- The DCVS/DCCS output is floating. All internal voltage supplies are designed with special DC/DC-converters which guaranties extremely low noise output- voltages and current.
- Very low settling times are executed via the bipolar power stage.
- The DCVS does support the Auto-Sensing feature

VMU:

- The VMU is used to measure DC voltages.
- The VMU input is floating. All internal voltage supplies are designed with special DC/DC-converters which guaranties extremely low noise.

CMU:

- The CMU is used to measure DC current.
- The CMU uses a special concept for current measurements where a very low input impedance is used to measure low currents. This concept can be used for currents up to 100mA and guaranties very low measurement times.
- The CMU input is floating. All internal voltage supplies are designed with special DC/DC-converters which guaranties extremely low noise.

The instrument calibration is done digital and fully automatic. The calibration data are stored in an on-board EEPROM.

Relay Matrix:

- The VX2702 does support a customized relay matrix plugged into the instrument as a daughter board.
- The on-board relays can be controlled by the software driver.

All product data[1] are specified for an ambient temperature of 23°C ± 5°C, after 1 hour warm-up time

Current Measurement Unit	Specification	Comment
Resolution	16Bit	
ADC Conversion time	10µs	
Overload Protection	+/-200mA	all ranges
Accuracy		
1uA-Range	0,5% + 5nA	% of reading + offset
10uA-Range	0,2% + 20nA	% of reading + offset
100uA-Range	0,1% + 100nA	% of reading + offset
1mA-Range	0,1% + 1µA	% of reading + offset
10mA-Range	0,1% +10µA	% of reading + offset
100mA-Range	0,1% + 100µA	% of reading + offset
Input impedance		
1uA-Range	<100Ω	
10uA-Range	<10Ω	
100uA-Range	<1Ω	
1mA-Range	<1Ω	
10mA-Range	<100mΩ	
100mA-Range	<100mΩ	

Voltage Measurement Unit	Specification	Comment
Resolution	16Bit	
ADC Conversion time	10µs	
Overload Protection	+/-200V	all ranges
Accuracy		
6V-Range	0,05% + 3mV	% of reading + offset
15V-Range	0,05% + 7.5mV	% of reading + offset
50V-Range	0,05% + 25mV	% of reading + offset
Input impedance		
6V-Range	>100MΩ	
15V-Range	>100MΩ	
50V-Range	10 MΩ	

VX2702 DC Source and Measurement Unit

U/I Generator	Specification	Comment
DC Voltage Source		
Resolution	16Bit	
Output voltage	-50V … +50V	
Maximum output current	±100mA	
Accuracy		
Gain-Error	0,05%	of programmed value
Offset-Error	0,05%	of full scale
DC Current Source		
Resolution	16Bit	
Output current	-100mA … +100mA	
Maximum output voltage	±50V	
Ranges		100mA, 10mA, 1mA, 100uA, 10uA
Accuracy		
Gain-Error	0,1%	of programmed value
Offset-Error	0,1%	of full range

Instrument Driver:

The instrument integration is simplified with VXI*plug&play* drivers. A soft front panel is included to control and verify the instrument without writing a user program.

Quality:

All VX Instruments products are designed and built with ISO-9001 certified quality at VX Instruments facility in Landshut, Germany. VX Instruments stands behind their products with a full three-year warranty.

(1) Product specification and description in this document are subject to change without notice

VX Instruments GmbH
Bernsteinstr. 41A
84032 Landshut-Altdorf
Germany

Phone: +49 (0)871 931 555-0
Fax: +49 (0)871 931 555-55
Email: sales@vxinstruments.com
Web: www.vxinstruments.com

Copyright © 2003 VX Instruments GmbH
Date: October, 2008

Artisan Technology Group is an independent supplier of quality pre-owned equipment

Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP