





# Features

Use with VT1415A/VT1419A/VT1422A

8-channel Non-isolated Current Source

Over-voltage Protection

Source  $\pm 10$  mA with up to 15 V Compliance

### 8-channel Current Output SCP

#### Overview

The VXITechnology VT1532A 8-channel Current Output SCP provides eight channels of non-isolated current source outputs. Each output can source ±10 mA with up to 15 V compliance.

Each channel has over-voltage protection to protect the SCP and A/D from damaging voltage levels (>21 V) applied to its outputs. You can connect two channels in parallel to use with 4 - 20 mA control loops. Power limitations will allow only seven (7) VT1532A SCPs to be installed in a VT1415A, VT1419A, or VT1422A.

Use the VT1532A with the following VXI modules:

Model Description

VT1415A Algorithmic Closed Loop Controller

VT1419A Multifunction Measurement and Control Module

VT1422A Remote Channel Multifunction DAC

Refer to the VXITechnology Website for recent product updates, if applicable.

#### **Specifications**

#### **Maximum Input Voltage**

(Non-operating externally applied voltage without damage applied to any output Hi terminal)

Damage level: >±42 V peak

Noise

20 Hz to 250 kHz into 250  $\Omega$  <2  $\mu$ A rms

#### **Current Output**

Range: ±10 mA (Full-scale at

>±15 V compliance)

Resolution: 16 bits = 316 nA

(monotonic to 16 bits)

Accuracy: (±0.06% of expected

23 °C  $\pm$ 1 °C (90 days) output)  $\pm$ (3.3  $\mu$ A offset error)



## 8-channel Current Output SCP

#### Temperature coefficient

Accuracy:  $\pm 0.004\%$ °C Offset error:  $0.3 \,\mu\text{A/°C}$ 

Settling time: 350  $\mu s$  with 250  $\Omega$  load

Output impedance:  $>\pm600 \text{ k}\Omega$ 

#### **Power Required**

±5 V:

Typical: 11 mA Maximum: 15 mA

±24 V:

0 mA output typical: 60 mA 0 mA output maximum: 75 mA 10 mA output typical: 135 mA 10 mA output maximum: 150 mA

#### **Current Requirements (Amps)**

**5 V max 24 V max -24 V max** 0.011 0.065 0.065

Ordering Information

VT1532A

8-channel Current Output SCP