GPIB-M Multichannel Interface

Digital Interface For Multiple Unit Programming, Control, and Auto Sequencing

Conveniently Connects Multiple Units

The Xantrex GPIB-M multichannel interface is a full-featured, IEEE 488.2 SCPI compatible interface option usable with all Xantrex programmable DC power supplies from 60 W to 12 kW. GPIB-M offers the flexibility to remotely control up to 50 supplies - each with a GPIB-M or CANbus communications link installed - by multichannel addressing from a single GPIB address.

Provides Auto Sequence Capability

GPIB-M uses the functionality from the Xantrex Digital Controlled power supply (XDC Series) and makes it available for other Xantrex products - the XFR, XHR, XPD, HPD, and XT Series. The auto sequencing capability enables test sequences, which have been programmed externally via GPIB, to be launched with a GPIB command. Up to ten different test programs, each with up to 99 voltage level steps ranging from milliseconds to days, can be executed by a GPIB command or an external trigger. This sequencing capability can be used for a variety of applications including constructing simple voltage ramps, battery charging and simulation of battery voltage at engine start-up, component testing, and MIL 704E testing.

Product Features

- High speed 16-bit programming and readback of voltage and current
- Programmable soft limits for voltage and current
- Software calibration
- Programmable auxiliary status lines
- Local Lockout capability
- Remote interlock and trigger lines
- Selectable standby, programmed sequence and other power-on defaults
- Extensive SCPI command set for control and status monitoring
- Support of legacy Xantrex GPIB commands

Protection Features

- Programmable over voltage, under voltage, and current protection
- Shutdown or warning for over/under-programmed trip points
## GPIB-M Multichannel Interface

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### Typical Specifications With GPIB-M or CANbus Installed

<table>
<thead>
<tr>
<th>Model</th>
<th>Program Resolution</th>
<th>Voltage (mV)</th>
<th>Current (mA)</th>
<th>Program Accuracy</th>
<th>Voltage (mV)</th>
<th>Current (mA)</th>
<th>Readback Resolution</th>
<th>Voltage (mV)</th>
<th>Current (mA)</th>
<th>Readback Accuracy</th>
<th>Voltage (mV)</th>
<th>Current (mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>XFR 2.8 kW</td>
<td>7.5-300 12-220 20-130 33-85 40-70 60-46 100-28 150-18 300-9 600-4</td>
<td>0.13 0.34 0.55 0.67 1.01 1.68 2.52 5.04 10.1</td>
<td>5.04 3.69 2.18 1.50 1.17 0.77 0.47 0.3 0.15 0.07</td>
<td>0.2% + 10 mV</td>
<td>25 34 50 76 90 130 210 310 610 1210</td>
<td>910 670 400 265 220 148 94 64 37 22</td>
<td>0.3% + 20 mA</td>
<td>13</td>
<td>8</td>
<td>5</td>
<td>3.5</td>
<td>2.5</td>
</tr>
<tr>
<td>XFR 1.2 kW</td>
<td>6-200 7.5-140 12-100 20-60 35-35 40-30 60-20 100-12 150-8 300-4 600-2</td>
<td>0.13 0.2 0.34 0.59 0.67 1.01 1.68 2.52 5.04 10.1</td>
<td>3.36 2.35 1.68 1.01 0.59 0.34 0.2 0.13 0.07 0.03</td>
<td>0.2% + 10 mV</td>
<td>22 25 34 50 80 90 130 210 310 610 1210</td>
<td>610 430 310 190 115 100 70 46 34 22 16</td>
<td>0.3% + 20 mA</td>
<td>3.6</td>
<td>2.35</td>
<td>1.68</td>
<td>1.01</td>
<td>0.59</td>
</tr>
<tr>
<td>XFR 1 kW</td>
<td>7.5-130 20-50 33-33 40-25 60-18 100-10 150-7 300-3.5 600-1.7</td>
<td>0.13 0.34 0.55 0.67 1.01 1.68 2.52 5.04 10.1</td>
<td>2.18 0.84 0.55 0.42 0.3 0.17 0.12 0.06 0.03</td>
<td>0.2% + 10 mV</td>
<td>25 50 76 90 130 210 310 610 1210</td>
<td>400 160 109 85 64 40 31 21 15</td>
<td>0.3% + 20 mA</td>
<td>3.6</td>
<td>2.35</td>
<td>1.68</td>
<td>1.01</td>
<td>0.59</td>
</tr>
<tr>
<td>XPD 500 W</td>
<td>7.5-67 18-30 33-16 60-9 120-4.5</td>
<td>0.13 0.30 0.55 1.01 2.01</td>
<td>1.12 0.50 0.27 0.15 0.08</td>
<td>0.2% + 10 mV</td>
<td>25 46 76 130 250</td>
<td>211 100 58 37 23.5</td>
<td>0.3% + 20 mA</td>
<td>1.2</td>
<td>0.50</td>
<td>0.27</td>
<td>0.15</td>
<td>0.08</td>
</tr>
<tr>
<td>HPD 300 W and XT 60 W</td>
<td>HPD</td>
<td>7-6</td>
<td>15-4</td>
<td>20-3</td>
<td>30-2</td>
<td>60-1</td>
<td>120-0.5</td>
<td>250-0.25</td>
<td>0.25 0.5 1.01</td>
<td>0.12 0.25 0.34 0.5 1.01 2.01 4.2</td>
<td>0.34 0.17 0.08</td>
<td>0.1 0.07 0.05 0.03 0.02 0.01 0.01</td>
</tr>
</tbody>
</table>

**Note:** Specifications subject to change without notice.