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| Trotter Controls, Inc. FORT WORTH, TEXAS | PRODUCT DATASHEET | NUMBER DS-0013 | REVISION |
| | | MODEL 5990-0011 | |
| TITLE DATASHEET – 5990-0011 PCB | BY LKA | CHK'D VT | SERIAL |
| | DATE 7/7/2009 | PAGE 1 | OF 2 |

REVISIONS:

None

PURPOSE:

This specification details the general specifications for the 5990-0011 Multichannel RS232 driver / receiver PCB

SUMMARY:

This PCB is used to provide communication drivers for a VFD (Vacuum Florescent Display) or LCD display on an RS232 or SPI buss.

The circuit board converts TTL levels to high level signals suitable for transmission over long cables and provides signal buffering.

FEATURES:**PCB**

- Converts RS232 levels to TTL for VFD/LCD
- On board power supply and regulator for display and level shifting circuits.
- Can be configured for VFD or LCD type display
- Small size, 1.6 by 3.9 inch (40 by 100mm)
- Buffers TTL levels back to RS232 for transmitting to next VFD/LCD daisy chained display
- RS232 / SPI Data signal indicator
- RS232 / SPI Clock signal indicator
- RS232 / SPI Reset/CS signal indicator
- RS232 / SPI Busy signal indicator
- TTL / SPI Busy Signal Indicator
- Jumper to terminate "Busy"
- 4 layer design with internal busses and ground shields
- SMD construction

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- I/O points on standard .1 inch pitch
- Mounting pads for flexible mounting options
- Power can be fed through daisy chain network cabling
- EMI/RF filtering
- Power On indicator

VFD interface features

Same mounting holes as Noritake GU128X32D, Directly piggybacks to this unit.

Includes signals

- Busy
- Reset
- Clock
- Data
- +V
- Gnd

LCD interface features

Has same mounting holes as Crystalfontz CFAG14432E series displays, can directly piggybacks to this unit.

Includes SPI and power signals

- CS (Chip Select, same line as VFD reset)
- Clock
- Data
- +V
- Gnd

Includes additional signals

- +V Out for contrast adjust (From LCD)
- +V in for contrast adjust (Too LCD)
- Jack for external contrast potentiometer connection
- Jack for connection of backlight LED
- On board backlight LED current limiter resistor