CesCom

N400 ACA Approved

CE-1067

DATA LOGGER

DESCRIPTION

Serial Data Logging is performed by the CE-1067. Serial Data Logging may be configured to automatically time stamp each line of text and also to write to an SD on-line terminator or time-outs or both. As characters are received they are temporarily buffered until a terminator is received or if no more characters are received within a time-out period. When the buffer is ready it is written to the SD Card and appended to the end of the current log file. Also if the buffer becomes full it will automatically append to the log file. While the file is being written, any data being received will still be buffered in the primary communication buffers before being processed.

FEATURES

- P8x32A Propeller processor (32 bit x 8 cores)
- USB Serial Interface
- RS232 Serial Port – DB9 full 8 wire DTE
- 6 Bright indicator LED's
- Internal secure serial flash
- RTC time and date with back up power
- SD memory card slot
- Dual RS485 Ports
- Dual "open collector" MOSFET Outputs

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CONFIGURATION FILE

V2.3 firmware will have the facility to read a customer configuration file CONFIG.INI from the SD Card automatically. This file is in a text format that can be easily edited on any PC which permits units to be configured without access to the unit or its USB Serial Port.

Configuration File settings:

Baud Rate 9600

Data Bits 8

Terminator $OD

Time-out 500mSec

Time stamp Left

Format CR,LF,DD/MM/YY HH:MM:SS

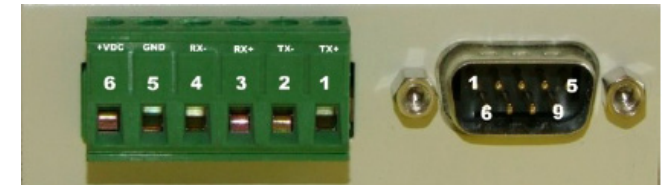Conditions Terminator Only

Filename LOG-0001.TXT

Max Size 1M

USB SERIAL PORT

Various commands and diagnostics may be performed via the on-board USB Serial Port. This Port is also used for firmware re-programming. Most PC operating systems have the USB driver built in and a standard serial port terminal emulator such as Terra Term or Hyper terminal may be used. The connection speed is set to 115.2Kbaud with 8 data, 1stop bit and no parity.

```
HARDWARE: CE1067 WIDGET
FIRMWARE: RS232 LOGGER
V2.2 110404-1200
-------------------------------------------
MAIN MENU 04/04/11 16:20:33
-------------------------------------------
<ESC>  cancel entry and list help commands
D     List directory
&     Echo real-time log data to terminal
/     Set or check date
:     Set or check time
=     Set or check terminator character
*     Set or check terminator timeout [in ms]
N     Close current log file and start a new one
-------------------------------------------
Mounting Card msg#0 Success
Total file size = 0
CMD>
```

CONNECTIONS

	RS-232		DB9 DTE
1	DCD	In	
2	RXD	In	Receive Data
3	TXD	Out	Transmit Data
4	DTR	Out	Data Terminal Ready
5	GND		
6	DSR	In	Data Set Ready
7	RTS	Out	RTS output
8	CTS	In	CTS output
9	RI	In	

	RS-485	
1	RS485 A	IO
2	RS485 B	IO
3	RS485 A	IO
4	RS485 B	IO
5	GND	
6	+VDC	In

SPECIFICATIONS

Supply Voltage	12 to 24VDC
Current	200ma @ 12VDC
Physical	78mm x 70mm x 15mm (WLH)
Weight	220g
Case	1mm Steel, zinc passivated
Environment	0'C to +70'C operating
Standards	IEC 1010; AS/NZS CISP 22:2006
CPU	P8X32A 8x32-bit CPU, 48kB RAM, 32kB ROM, 64kB EEPROM

PORTS

RS-232	110 – 460.8K baud, all formats supported, DB9
RS-422	110 – 2M baud, all formats supported, 6 way TB
USB 2.0	USB 2.0, FT232R USB UART slave, Standard B connection