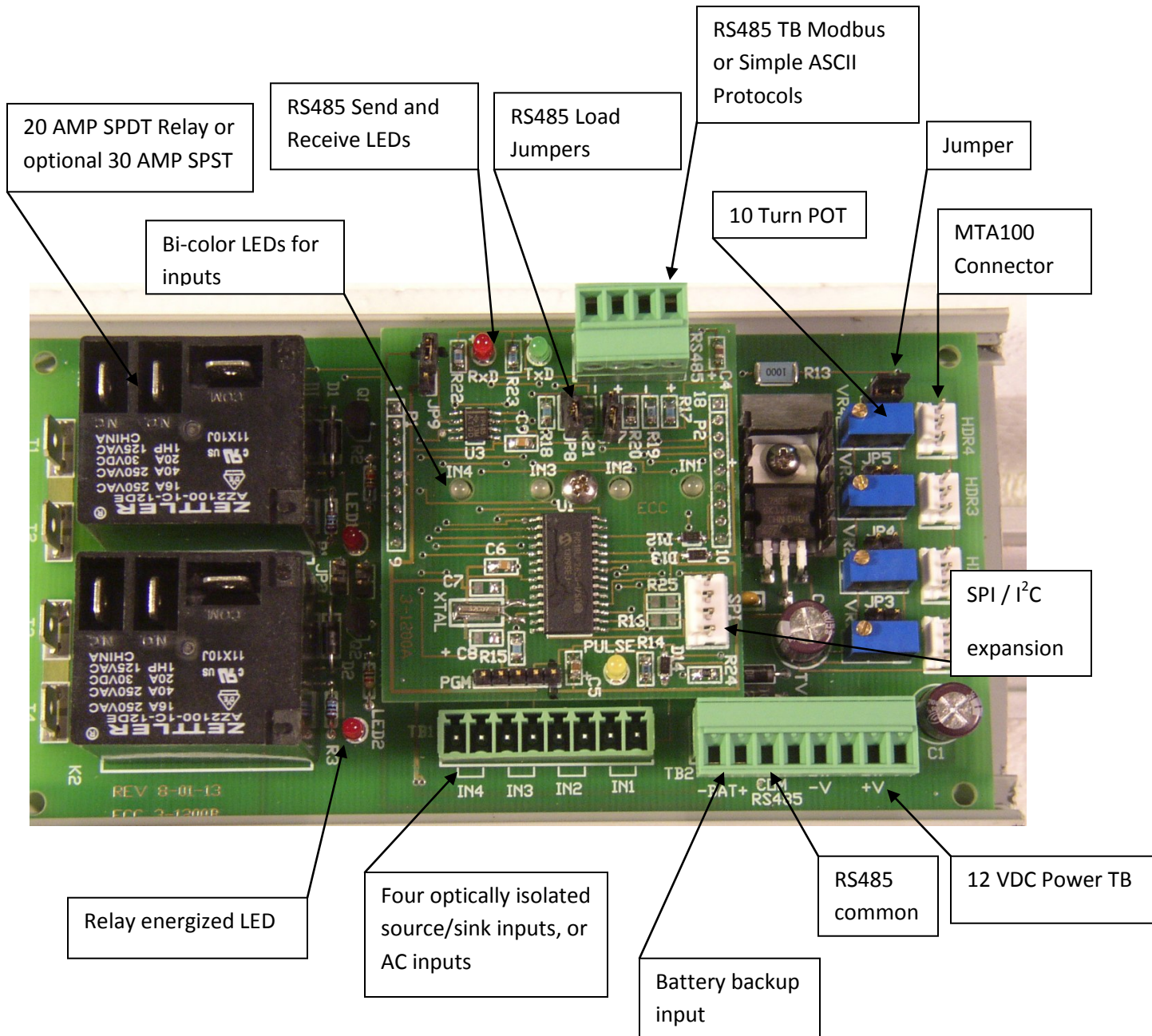


DCB2620 Features:

January 23, 2014



Model: DCB2620-12 for 12 VDC optically isolated inputs.

Model: DCB2620-120 for 120 VAC optically isolated inputs.

Other Features:

- On board regulator so input power does not have to be regulated. Can use 12 – 20 VDC wall adapter @ 200 MA.
- Operating temperature -40 to +85°C.
- Can be switched from Modbus to Simple ASCII Protocol. See downloads.
- Can be configured as a Data Logger.
- Can be used as a standalone unit, or as a network master.

Default Configuration:

- Modbus RTU
- Slave address 1.
- 19.2K baud.
- 8 data bits, 2 stop bits
- 4, 10 bit ADC inputs.
- Opto Inputs configured for AC filtering – can be configured for DC.

Windows configuration program:

Free program runs on XP and Windows 7 operating systems. Program is used to configure individual DCB2620 units, to test individual units, or can be used to control a network of units.

Four MTA100 connectors provide the following options:

- Four, 10 bit ADC inputs (default).
- Port can be configured as analog or digital – see table 1 below.
- If configured as digital, the default is TTL level input.
- If configured as digital, it can be further configured as TTL level output.

The MTA100 connectors provide an external connection for 0 to 5 VDC analog inputs. If an external input is not used, each input channel also has a 10 turn potentiometer that can be jumpered into the ADC input. The potentiometers can provide parameter settings such as tank high level, maximum pressure etc.

Real Time Clock:

The DCB2620 has a real time clock that can be used to keep time during power outages. An external battery pack is required – see accessories.

DCB2620 Operation:

- The DCB2620 can function as a slave on a Modbus network.
- The DCB2620 can be programmed VIA logic program to run standalone.
- If running a standalone program, it can still function as part of a Modbus network.
- The DCB2620 can function as a network master, controlling a network of DCB2620/DCB1320 PCBs, AMPWTX-MOD current sense modules, and MOD4-20, 4 to 20 MA current sensors.

Logic Program:

Free program was written using VC++ and has been tested on XP and Windows 7 operating systems. See downloads.

Allowable mix of analog and digital configurations for MTA100 headers HDR1 through HDR4.

HDR4	HDR3	HDR2	HDR1
Digital	Digital	Digital	Digital
Analog	Digital	Digital	Digital
Analog	Analog	Digital	Digital
Analog	Analog	Analog	Digital
Analog	Analog	Analog	Analog

Table 1.

Mounting:

The DCB2620 can be panel mounted, Snaptrack mounted (using three inch Snaptrack) , or DIN Rail mounted. The circuit board is 2.95 x 5.75 inches.

See DCB Manual for additional information.