

# Tinley NMEA-USB Merge Computer Installation Diagram

Software Version 1.00

Power supply:  
Not required when using USB

12/24 Volts nominal  
9-32 Volts < 150mA  
Under full load

Protect with 250mA fuse

Inputs exceed accordance to NMEA 0183  
versions 1.5, 2.X and 3.01 (EIA-422-A)  
RS232 compatible  
Sensitivity better than 1.4V  
@ better than 1mA

Over voltage and reverse polarity protected

Full Opto Isolation better than 5kV

Output exceeds accordance to NMEA 0183  
versions 1.5, 2.X and 3.01  
(EIA-422-A). Max 60mA.

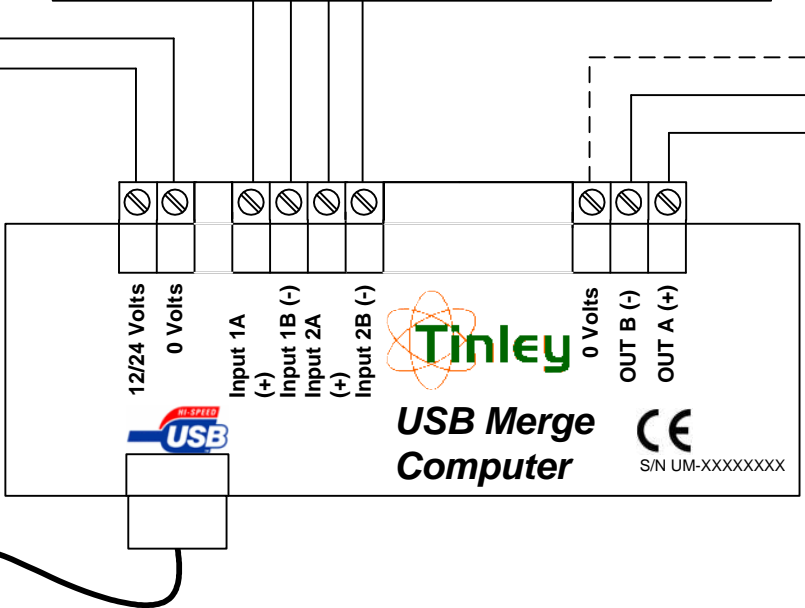
Can drive more than 30 NMEA inputs!

Short circuit protected

Note: Some interfaces that are not compliant  
with NMEA 0183 or EIA-422, (PC's or RS232  
for example), can cause a conflict with this  
output. This results in excessive current  
drawn and corruption of data. If this is the  
case, (and on all PC's), connect 'Output A'  
as the output signal and use '0 Volts' as signal  
ground. Do not connect NMEA Output B to 0V  
or ships ground. If in doubt, use a multimeter  
to check for continuity between the connecting  
equipment's NMEA ground input and ships  
ground.

USB Hi-Speed  
V2.0  
(Also compatible with V1.1)

Drivers provided on CD for:  
Windows XP  
Windows 2000  
Windows 98 SE  
Windows NT



Compass safe distance: 200mm

A=Signal  
B=Return