
Technical Note

Driver and Dongle for Thermo 49C

Agilaire has identified some issues with the Thermo 49C (ozone) analyzer and how it interfaces serially to the Model 8816 and Model 8832 data loggers. As the response from the analyzer for the base ozone reading is just "o3" with no other discriminators, it isn't easy for the 8816/8832 to distinguish whether to get ready to receive the ozone reading, or if the analyzer is going to send "o3 bkgd" or "o3 coef" data.s

We have posted a new version of the driver on our web site (www.agilairecorp.com) that can resolve this protocol limitation. However, this solution also requires a "dongle" type device on the RS-232 port. Figure 1 shows how to build the dongle (pretty simple), or you can purchase them from Agilaire for \$29.00 each. This new driver will not work without the dongle.

Note that this problem will not be an issue with Thermo's i-Series analyzers, which use a better transport layer (Ethernet) and standard protocol (Modbus) that can be enabled on Model 8832s. Contact us for pricing for the Modbus interface if you have or will be getting i-Series analyzers and would like to take advantage of these features.

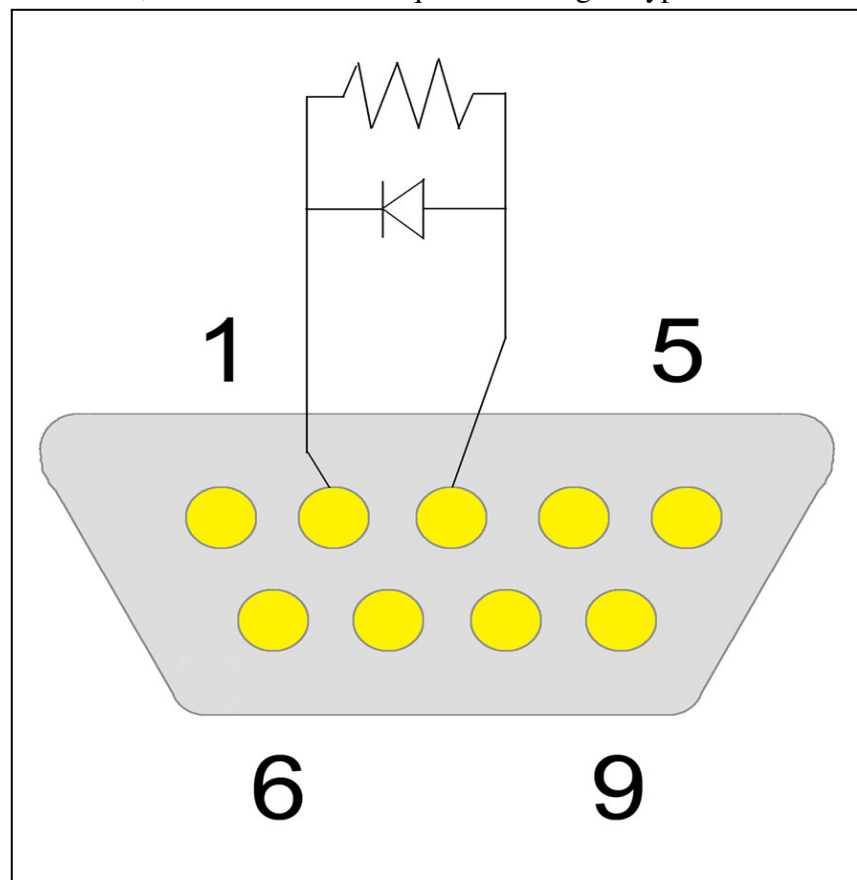


Figure 1 Dongle for RS-232