METTLER TOLEDO Technical Bulletin

Number: I-15-06
Date: June 14, 2006
To: MT Sales US, MT Service US, MT Sales Canada, MT Service Canada, Distributor Sales, Distributor Service
Model: ADI310 Scoreboard

Communication, Wiring, and Programming Recommendations

When installing new ADI310 Scoreboards, METTLER TOLEDO recommends using only RS422 as the mode of transmission, at 9600 baud, 8 bits, no parity, to insure smooth installation and optimal operation.

Multi-continuous with multiple scoreboards:

When transmitting Multi-Continuous data from an indicator to multiple ADI310 Scoreboards, wire the system accordingly using twisted pair cable P/N 15029900A (2 conductor).

Indicator	ADI310 Scale 1	ADI310 Scale 2	ADI 310 Scale 3	ADI310 Summing
RS422A (+) *	RX422A	RX422A	RX422A -----*	RX422A
RS422B (-) *	RX422B	RX422B	RX422B -----*	RX422B

* Install a 120 ohm termination resistor between these two terminals

ADI310 programming Option 2 must be on, and the Fixed Baud selection, Option 14 must be off.

Current Loop Applications:

There have been reports of problems when interfacing an indicator with an ADI310 Scoreboard while using 20 milliamp current loop as the mode of communication. In applications where RS422 is not an option, and current loop is the only long distance option, METTLER TOLEDO recommends using the fixed baud rate option (Option 14) in the scoreboard. Use 9600 baud in most applications.