

Alignment Procedure for Analog Meter & Output signal

For most of the TAI Instruments, with the Analog meter and the Universal Motherboard.

Use this Procedure to verify that the Analog meter reading matches the output signal. And that the meter reading is linear from one range to the other.

This alignment is done at the factory, but re-alignment may be required with age, or after replacing the analog meter or the amplifier p.c. board assembly.

1. Turn power switch to the “off” position, & use a screwdriver to adjust the analog meter to zero.
2. Connect a DC voltmeter between ground and TP1 on the motherboard. (Red to TP1)
3. Flow Span Calibration gas, or connect a Signal Generator (like an O₂ cell simulator).
4. Adjust the Span pot on the front of the analyzer until there is 1.00vdc at TP1.
5. Adjust pot P1 on the mother board until the analog meter is at full-scale.
6. Verify that the meter is at full-scale & TP1 is at 1.00vdc. If not, Repeat step 4 & 5.

Note: This 0-1.00vdc signal at TP1 also goes to the output terminal strip TS3 #2 & #3. And to the input of the E to I p.c. board assembly to be converted to 4-20madc.