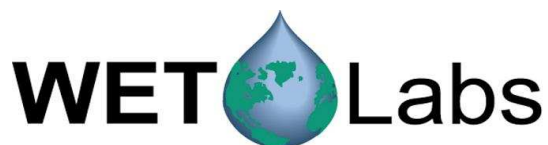


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C-Star Calibration

| | | | | | |
|------|------------------|------|-----------|------------|-------|
| Date | October 28, 2009 | S/N# | CST-864PR | Pathlength | 25 cm |
|------|------------------|------|-----------|------------|-------|

Analog meter

| | |
|-----------|---------|
| V_d | 0.058 V |
| V_{air} | 4.806 V |
| V_{ref} | 4.707 V |

| | |
|--|---------|
| Temperature of calibration water | 21.2 °C |
| Ambient temperature during calibration | 22.0 °C |

Relationship of transmittance (Tr) to beam attenuation coefficient (c), and pathlength (x , in meters): $Tr = e^{-cx}$

To determine beam transmittance: $Tr = (V_{sig} - V_{dark}) / (V_{ref} - V_{dark})$

To determine beam attenuation coefficient: $c = -1/x * \ln(Tr)$

V_d Meter output with the beam blocked. This is the offset.

V_{air} Meter output in air with a clear beam path.

V_{ref} Meter output with clean water in the path.

Temperature of calibration water: temperature of clean water used to obtain V_{ref} .

Ambient temperature: meter temperature in air during the calibration.

V_{sig} Measured signal output of meter.