



# Model 980 Dual Beam Photometer

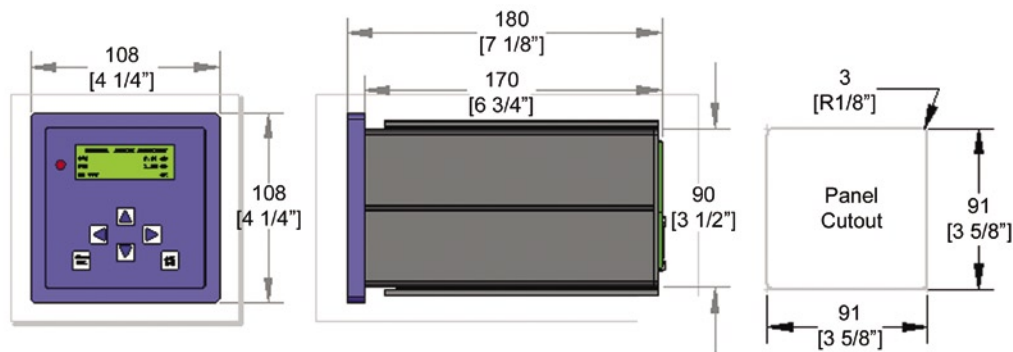
Measures Color and  
Concentration



**The Model 980 is Microprocessor Based and used with either a Model AF21 or AF22 Online Sensor to Measure Color and Concentration of Process Liquids in the Visible Region of the Electromagnetic Spectrum**

- Measures Color absorbance up to 5 AU/OD, or Hazen, APHA, ASTM, EBC, Pt-Co or Saybolt color units
- 4 X 20 character alphanumeric display and 6 button input for simple navigation
- Two 4-20mA analog outputs
- User-friendly menu based calibration: liquid free calibration using the EasyCal™ system and wet calibration using prepared liquid standards
- Four configurable digital inputs and three optically isolated digital outputs can be connected to a PLC for inclusion in a control scheme
- Built-in diagnostics to report any system errors or alarms, including sensor failures, open cable and internal processor exceptions
- Baseline and baseline shift functions allow operator to manually set artificial zero point
- Advanced log amp provides improved response characteristics
- Front panel environmental protection level is rated at NEMA 4/IP65 - optional NEMA 4/IP65 field mount enclosures available

Model 980	Specifications
Signal Inputs	Dual Input Current from Model AF21/AF22 Online Sensor
Range	Up to 5 AU/OD
Accuracy	±1% of measurement range
Linearity	±1% of measurement range
Signal Outputs	General Alarm Relay Contact, 125mA 115Vac resistive load 2 - Process Relay Contact, 125mA 115Vac resistive load 2 - fully isolated 4-20mA, 1000 ohm load
Power	100 to 250Vac, 50/60Hz, 15VA, (Optional 18-36Vdc, 10W)
Operating Environment	Temperature 0-55°C; Relative Humidity 0-90%



Dimensions Diagram

980		
C	<b>Line Power</b>	AC
D		24Vdc
C1	<b>Analyzer Type</b>	Color

Order Code

<b>AF21/AF22 Sensor Cable Sets</b>	
A050-1022-10	Model 980 to AF21/AF22 cable set - 10ft
A050-1022-15	Model 980 to AF21/AF22 cable set - 15ft
A050-1022-25	Model 980 to AF21/AF22 cable set - 25ft
A050-1022-50	Model 980 to AF21/AF22 cable set - 50ft
A050-5322-10	Model 980 to AF21/AF22EXP FM, Busbar ISB cable set - 10ft
A050-5322-15	Model 980 to AF21/AF22EXP FM, Busbar ISB cable set - 15ft
A050-5322-25	Model 980 to AF21/AF22EXP FM, Busbar ISB cable set - 25ft
A050-5322-50	Model 980 to AF21/AF22EXP FM, Busbar ISB cable set - 50ft
A050-5522-10	Model 980 to AF21/AF22EXP CENELEC, Busbar ISB cable set - 10ft
A050-5522-15	Model 980 to AF21/AF22EXP CENELEC, Busbar ISB cable set - 15ft
A050-5522-25	Model 980 to AF21/AF22EXP CENELEC, Busbar ISB cable set - 25ft
A050-5522-50	Model 980 to AF21/AF22EXP CENELEC, Busbar ISB cable set - 50ft
A050-5822-10	Model 980 to AF21/AF22EXP FM, DIN rail ISB cable set - 10ft
A050-5822-15	Model 980 to AF21/AF22EXP FM, DIN rail ISB cable set - 15ft
A050-5822-25	Model 980 to AF21/AF22EXP FM, DIN rail ISB cable set - 25ft
A050-5822-50	Model 980 to AF21/AF22EXP FM, DIN rail ISB cable set - 50ft
A050-5922-10	Model 980 to AF21/AF22EXP CENELEC, DIN rail ISB cable set - 10ft
A050-5922-15	Model 980 to AF21/AF22EXP CENELEC, DIN rail ISB cable set - 15ft
A050-5922-25	Model 980 to AF21/AF22EXP CENELEC, DIN rail ISB cable set - 25ft
A050-5922-50	Model 980 to AF21/AF22EXP CENELEC, DIN rail ISB cable set - 50ft

Accessories





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