



Model CA900 Fluoride Analyzer



OVERVIEW

Thank you for purchasing our Model CA900 Fluoride Analyzer.

The CA900 Fluoride Analyzer was designed and manufactured to be an easy-to-use, high-sensitivity and low-cost measuring instrument. This Analyzer should give you many years of reliable and hassle-free operation with regular care and maintenance.

This document is the Operating Manual for the Analyzer. We recommend you record the purchasing information on the form in Appendix A Page 73.

The Model CA900 Fluoride Analyzer is 100-240 VAC line powered, 50/60 Hz. Available options include, (4) 4 to 20 mA outputs, (4) configurable Relays (for Alarm, Timed Relay, and Fault), (4) digital inputs, and Ethernet communication.

FEATURES

1. User-replaceable sensor cartridge at minimal cost.
2. Simple, user friendly menu structure.
3. Noise free digital communication with sensors.
4. Reads and writes calibration data to sensor.
5. Non-Isolated 4-20 mA output.
6. Ethernet control and monitoring functions.
7. Datalogging of the Fluoride primary variable the Fluoride sensors, (4) 4-20 outputs, (4) digital inputs, and events.
8. Remote measurement cycle activation.

SPECIFICATIONS

Analysis	Fluoride
Measuring Range	0 to 2000ppm.
Response Time	4 minute cycle plus any user entered wait time.
Repeatability	+/- 2%
Drift	+/- 2% per month of full scale measurements
Input Signals	Non-Isolated 4-20 mA Input Non-Isolated Digital Input Non-Isolated Remote activation (using Digital Input 1)
Output Signals	Ethernet
Contact Relays	Four (4) SPDT, 1 form C (NO - Normally Open, C - Common, NC - Normally Closed), 250 VAC, 15 Amp resistive maximum relays, user configurable as Hi/Lo alarms with expiration timer, Periodic or Fault alarms
Display	Color 12cm W x 9cm H (4.6in. W x 3.5in. H) LCD with resistive touch panel.
Enclosure	Wall mounted, Beige Polycarbonate, IP65, weatherproof, 17 in W x 32 in H x 9 in D / 43cm W x 81cm H x 23cm D
Power	100-240 VAC, 50/60 Hz, 0.7 to 1.4A, protected with 250V, 14A Breaker
Operating Temperature	-5°C - 50°C (23 - 122°F)
Relative Humidity	0 – 80%, up to 31°C Decreasing linearly to 50% RH at 40°C
Altitude	Up to 2000m (6500ft.)
Mains Supply Voltage	Fluctuations up to ±10% of the nominal voltage Transient over voltages: CAT II Pollution Degree: 2
Shipping	Size1 43cm x 30cm x 23cm (7 in W x 11.7 in H x 9 in D) Weight 17kg (38 lbs.)