

Product Information - AV-9000

LIFE SCIENCES

FOOD

AV-9000 Recorder / Recording Controller

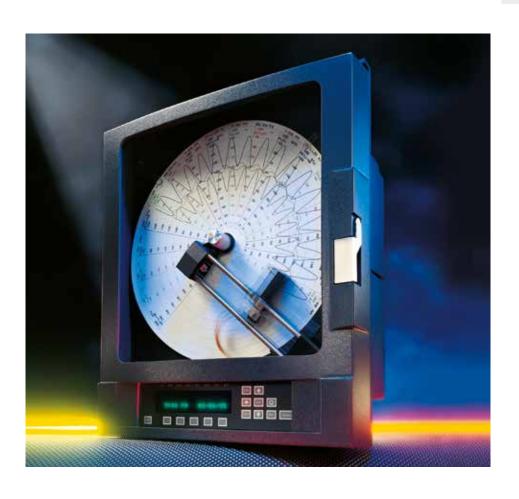
Introduction

Anderson-Negele introduces the AV-9000, a revolutionary circular chart recorder. It features a four-color marker pen cartridge which prints information as it glides across 12 inch charts. Chart reading is simplified by providing color coded trend lines, scales and alphnumeric data. Plain paper charts are far superior for record retention than "fax type" thermal paper used by competitors. Optional PID control is available on any four inputs. The 40 character vacuum fluorescent display coupled with the integral keypad make the AV-9000 easy to program for users at all skill levels. The case is designed to easily retrofit existing name-brand recorder cutouts.

Complete specifications and ordering information are available on the reverse. For more information please visit our Web Site at www.anderson-negele.com, or contact your local Authorized Anderson-Negele Distributor.

Features

- Four inputs recorded in four colors for enhanced legibility
- · Four additional inputs for indicating, control, switching, alarming
- Four PID controllers assignable to any inputs
- Prints its own scales and alphanumeric data
- No pen lag all printing to same timeline





Specifications

PERFORMANCE

Recording Accuracy: ± 0.3 Ambient Temperature Error: ± 0.3% of chart span reference accuracy

0.01% of span per degree C deviation from

Memory Backup: Battery, 5 year minimum, 10 years typical Operating Temperature: 0 to 50°C (32 to 122°F)
Humidity: 10 to 90% RH, non-condensing

Warranty: 2 vears

Agency Ápprovals: UL approved for USA: UL certified for

INPUTS

Eight total inputs of any of the following available types:

Analog Input types:

RTD Types:

Platinum 100 ohm, 2 or 3 wire

.00385 coefficient DIN 43760/IEC 751

.00392 coefficient (USA) .00392 coefficient (SAMA)

Voltage Inputs: 0 to 25mV, 0 to 100mV; 0 to 1 VDC, 0 to 10

0 to 20mA, 4 to 20mA Current Inputs:

Open/closed switch sensing without Contact Closure:

external voltages or resistors

The input scan rate is programmable and dependent upon the number of active inputs Scan Rate:

present on the recorder. The total scans per second for the instrument is 16 scans/

second.

OUTPUTS

Up to eight on/off relay outputs, and up to four 4 - 20mA analog

outputs are available.

Relay Outputs:

SPDT, contacts rated 5 amps resistive at 115 VAC, 2.5 amps resistive at 230 VAC, 1/8 HP at 230 VAC (single phase), 250 VA at

115/230 VAC.

Analog Outputs (for control and/or retransmission):

0 to 20mA into 0-650 ohm load with

12 bits resolution.

CONTROL

Control Modes: Proportional, Integral, & Derivative.

Auto/Manual: **Bumpless Transfer**

Local or Remote, Single or Dual Setpoint Setpoint:

POWER

Weight:

AC Power: 85 to 265 VAC, 50/60 Hz **PHYSICAL**

Overall Dimensions:

14.12 inches wide x 17.04 inches high x 7.75 inches deep

(358.65 mm wide x 425.96 mm high x

196.85 mm deep)

25 lbs. maximum (55 kg)

3 to 100 Hz @ 0.2g Vibration:

Gasketed cover, case and windows. Enclosure:

Structural foam case, cover material with

plastic window areas. Panel, wall or pipe mounting Mounting: Conduit Openings: Four conduit openings standard

NEMA Rating: NEMA 4X

5.25 inches (133.35 mm) Panel Depth:

12.7 inches wide x 12.7 inches high Panel Curout:

(322.58 mm x 322.58 mm) Front Panel Protrusion: 2.5 inches (63.5 mm)

DISPLAY AND KEYPAD

Primary Display:

2 line, 40 character vacuum fluorescent

display with characters .21 inch (5 mm)

high.

Status Indicators: 8, user configurable, red LED status

indicators

Operator Keypad: 15 keys for programming and unit

operation

Four alarms available per each of four process variables,

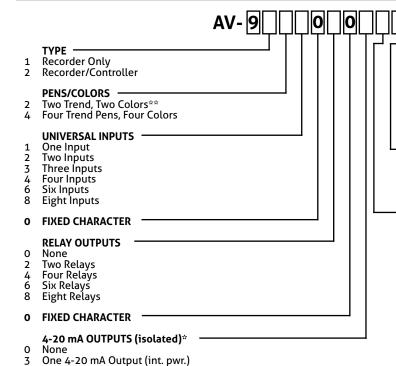
adjustable hysteresis.

0||3||3

0

ALARMS

Order Information



NOTE:

Must complete worksheet 1000 at time

of order

None Math

MATH/TOTALIZER

3 FIXED CHARACTER

3 FIXED CHARACTER

O FIXED CHARACTER

1 Totalizer

Math & Totalizer 3

24V TRANSMITTER POWER SUPPLY

0 None

One Supply Two Supplies 1 2

Three Supplies 3 Four Supplies

One 4-20mA output required for each controller function

Pens/colors are added to the instrument in the following order: red, then green, then blue, and then black.



Two 4-20 mA Outputs (int. pwr.) Three 4-20 mA Outputs (int. pwr.) Four 4-20 mA Outputs (int. pwr.) Two 4-20 mA Outputs (ext. pwr.) Four 4-20 mA Outputs (ext. pwr.)

Four 4-20 mA Outputs (2-int. pwr./2-ext. pwr.)