



**Anderson Instrument Co., Inc.**  
 156 Auriesville Rd.  
 Fultonville N.Y. 12072

Phone: 518-922-5315 or 800-833-0081  
 Fax: 518-922-8997 or 800-726-6733

# Technical Bulletin

AV-9900 HTST Recorder/Controller

Order Worksheet - Page 1 of 2

Order Matrix Number:

9	9								0		3	3	A	H
---	---	--	--	--	--	--	--	--	---	--	---	---	---	---

If [2] Complete Section II  
 If [1-2] Complete Section III  
 If [2-3] Complete Section IV  
 If [1-3] Complete Section VII  
 If [1-4] Complete Section VI  
 If [2-4] Complete Section V

## Section I - STLR and General Instrument Settings (MUST COMPLETE)

- Chart Tag (Max 10 characters - print on outside band of chart): \_\_\_\_\_
  - Instrument Tag (Max 20 characters - visible on user display): \_\_\_\_\_
  - Degrees F or  Degrees C
  - Chart Rotation:  12 hour (Mandatory if PMO Regulated Process)  Other: \_\_\_\_\_
  - STLR Range:  120-220 deg F  190-290 deg F  220-320 deg F  
 90-190 deg F  50-100 deg C  90-140 deg C  
 Other: \_\_\_\_\_ (Must be 100 deg span if PMO Regulated Process)
  - STLR Diversion Setpoints: 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_ 5. \_\_\_\_\_
- NOTE: A. Event pen standard - matches STLR pen color B. 165 deg F default if setpoints not specified - field changeable  
 C. If remote setpoint, either 2 or 4 setpoints available - must match option chosen

## Section II - HWC - Hot Water Controller

- Input Type:  RTD  mA - 4mA = \_\_\_\_\_ 20mA = \_\_\_\_\_
- Transmitter Power Supply:  No  Yes - This mA Input Is Un-powered - Supply Required  
 (\*\*\*) Choose In Section VII (\*\*\*)
- Hot Water Setpoints: 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_ 5. \_\_\_\_\_  
 (Will track STLR setpoints if same number specified)

## Section III - CPRC - Cold Product Recorder / Controller

- Input Type:  RTD  mA - 4mA = \_\_\_\_\_ 20mA = \_\_\_\_\_
- Transmitter Power Supply:  No  Yes - This mA Input Is Un-powered - Supply Required  
 (\*\*\*) Choose In Section VII (\*\*\*)
- Range:  0-200 deg F (Direct range configured as standard) Other: \_\_\_\_\_

## Section IV - SFLR - Safety Flow Limit Recorder / Controller

- Input Type: (mA Input ONLY - No alternate options)
- Transmitter Power Supply:  No  Yes - This mA Input Is Un-powered - Supply Required  
 (\*\*\*) Choose In Section VII (\*\*\*)
- Range:  Percent (%)  Gallons Per Hour (GPH)  Gallons Per Minute (GPM)  
 Liters Per Hour (LPH)  Liters Per Minute (LPM)

Flow Meter Output: 4.00 mA = \_\_\_\_\_ (0% if Flow in Percent)  
 20.00 mA = \_\_\_\_\_ (100% if Flow in Percent)

NOTE: This option requires RELAY 1 and RELAY 2 as dedicated to SFLR function. Be sure at least two relays have been specified in appropriate order matrix section..

NOTE: Event pen standard - matches SFLR pen color



**Anderson Instrument Co., Inc.**  
 156 Auriesville Rd.  
 Fultonville N.Y. 12072

Phone: 518-922-5315 or 800-833-0081  
 Fax: 518-922-8997 or 800-726-6733

# Technical Bulletin

AV-9900 HTST Recorder/Controller  
 Order Worksheet- Page 2 of 2

## Section V - Relays

Note: If unit has SFLR (Safety Flow Limit Recorder), MUST specify two relays dedicated to this function. Programmed as RELAY 1 and RELAY 2.

1. RELAY 1 Assign to:  SFLR Alarm 1 - Loss Of Signal (Mandatory if unit has SFLR function)  
 Other: \_\_\_\_\_
2. RELAY 2 Assign to:  SFLR Alarm 2 - High Flow (Mandatory if unit has SFLR function)  
 Other: \_\_\_\_\_
3. RELAY 3 Assign to:  Other: \_\_\_\_\_
4. RELAY 4 Assign to:  Other: \_\_\_\_\_

## Section VI - Current Outputs (4-20 mA)

Note: Each function that is specified with a PID CONTROLLER OUTPUT, or is programmed with a mA RETRANSMISSION, MUST be tied to a Current Output.

1. Select desired Current Outputs (Total number defined MUST match total number specified in matrix)

- Hot Water (HWC) PID Controller Output
- Cold Product (CPRC) PID Controller Output
- Safety Flow (SFLR) PID Controller Output
- Safety Thermal Limit (STLR) Input Signal mA Retransmission - 4mA = \_\_\_\_\_ 20mA = \_\_\_\_\_
- Hot Water (HWC) Input Signal mA Retransmission - 4mA = \_\_\_\_\_ 20mA = \_\_\_\_\_
- Cold Product (CPRC) Input Signal mA Retransmission - 4mA = \_\_\_\_\_ 20mA = \_\_\_\_\_
- Safety Flow (SFLR) Input Signal mA Retransmission - 4mA = \_\_\_\_\_ 20mA = \_\_\_\_\_

## Section VII - Transmitter Power Supply

- |   |                              |                               |                               |
|---|------------------------------|-------------------------------|-------------------------------|
| <input type="checkbox"/> Power Supply One Tied To Function:   | <input type="checkbox"/> HWC | <input type="checkbox"/> CPRC | <input type="checkbox"/> SFLR |
| <input type="checkbox"/> Power Supply Two Tied To Function:   | <input type="checkbox"/> HWC | <input type="checkbox"/> CPRC | <input type="checkbox"/> SFLR |
| <input type="checkbox"/> Power Supply Three Tied To Function: | <input type="checkbox"/> HWC | <input type="checkbox"/> CPRC | <input type="checkbox"/> SFLR |

## Miscellaneous Notes