

CAMS

SEQUENCE OF OPERATIONS

IDENTIFICATION CODE

- V-1,3 Pneumatically Piloted, 5-Way Valve, Static (low) Pressure
- V-2,4 Pneumatically Piloted, 5-Way Valve, Total (high) Pressure
- SV-1 Solenoid Operated 5-Way Valve
- SV-2 Solenoid Operated 3-Way Valve
- HV-1 Supply Air Shut Off Valve
- PI-1 Gauge, Supply Air Pressure, 0-160 psig
- F-1 Filter

SEQUENCE OF OPERATIONS

Automatic line purging interrupts airflow signal transmission at regular field selectable intervals and purges the station sensing lines with up to 125 psig air for short periods. This periodic purging assists in maintaining the sensing orifices of the total and static pressure manifolds in a clean, unobstructed condition.

A selectable timing sequence provided by the CAMM activates solenoid valves (SV-1 & SV-2) which shuttle the CAMM isolation valves (V3 and V4) and purge valves (V1 and V2). A simultaneous output signal hold corresponding to the last measured input is initiated by the CAMM and maintained until the purge cycle is complete.

When valve V1/V3 and V2/V4 operate, the velocity pressure signal lines (C and D) to the CAMM are isolated, and high pressure purge air AS1 is routed to the station (probes) sensing lines (A and B). The high pressure purge air cleans the flow sensing orifices of the flow station (probes) during the purge duration.

At the end of the purge cycle or on receipt of the purge interrupt dry contact (momentary), the CAMM withdraws its purge signal, de-energizing SV-1 & SV-2 and causing valves V3/V4 and V1/V2 to reset after a short time delay to their normal position, thereby reconnecting the process sensing lines to the CAMM. After a short timed interval the CAMM signal hold is terminated and on-line signal processing resumes.

SCHEMATIC

