

system instrumentation are:-

- A - Automatic differential pressure compensation
- F - Automatic static pressure compensation
- M - Manually-adjustable static pressure compensation
- T - Automatic flowing temperature compensation
- S - Manually-adjustable flowing temperature compensation
- U - Manually-adjustable orifice constant.

When a single value of the factor C" has been introduced into the computer, there is no system designation for P_f flowing temperature, T_f or orifice constant.

In addition to the above letters used to define the system instrumentation, other letters are used to indicate:-

- D - Systems operated from direct current sources
- E - Systems having explosion-proof transducers
- EE - Systems having explosion-proof transducers and computer
- R - Systems having a manual reset on the accumulated volume counter
- C - Systems having auxiliary electrical contacts on the accumulated volume counter, the number of contacts appearing before the letter.

The 18 variations of the Model 257 Flow Measuring System are:-

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|-----------------|-----------------|
| Model 257 A | Model 257 AP-U |
| Model 257 A-U | Model 257 APS |
| Model 257 AM | Model 257 APS-U |
| Model 257 AM-U | Model 257 AT |
| Model 257 AS | Model 257 AT-U |
| Model 257 AS-U | Model 257 ATM |
| Model 257 AMS | Model 257 ATM-U |
| Model 257 AMS-U | Model 257 APT |
| Model 257 AP | Model 257 APT-U |

The Flow Computer will not operate unless it is fed with all four factors, viz, differential pressure, static pressure, flowing temperature and flow coefficient C". All components of the Flow Measuring System for a particular installation will be marked with the same serial number.

For testing, a "test switch" is provided which introduces simulated values of 160 p.s.i. static pressure and 20°F. flowing temperature into the computer. These two factors plus the design atmospheric pressure of 13.0 p.s.i. of the computer provide three of the factors in the flow formula. The universal adapter dial is set at a value taken from the graph of the orifice factor.

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