

*Note: The standard ranges are listed, however, other ranges between 0-40 and 0-400 inches water gauge are approved.

Description: The transmitter is housed in a universal type, die-cast aluminum case with the Barton Manometer attached at the rear. Both case and manometer are weatherproof. The recording receiver is housed in a universal type of steel case for indoor panel mounting.

Operation: Both transmitter and Recorder are pneumatically operated and when suitably placed and connected, provide an air-operated telemetering system for recording and indicating the differential pressure of flowing gas.

In operation, the Barton manometer measures the varying differential pressure, transfers the measurement to a motion of its torque tube shaft, which in turn, through suitable linkage, actuates the servo relay unit in the transmitter. When the servo relay unit is actuated, it produces a varying signal pressure from 3 to 15 P.S.I., corresponding to the range of zero to maximum differential pressure. This varying signal pressure which is proportional to the varying differential pressure is then transmitted to the receiving recorder via connecting tubing.

The transmitted signal pressure operates a servo-matic motor in the receiving recorder, which converts the varying signal pressure to a motion of a driving pulley, which in turn operates the pen/pointer via a connecting pulley and cable system. The travel of the pen/pointer is proportioned to the signal pressure and therefore records and indicates the original differential pressure applied to the Barton manometer on the Transmitter.

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