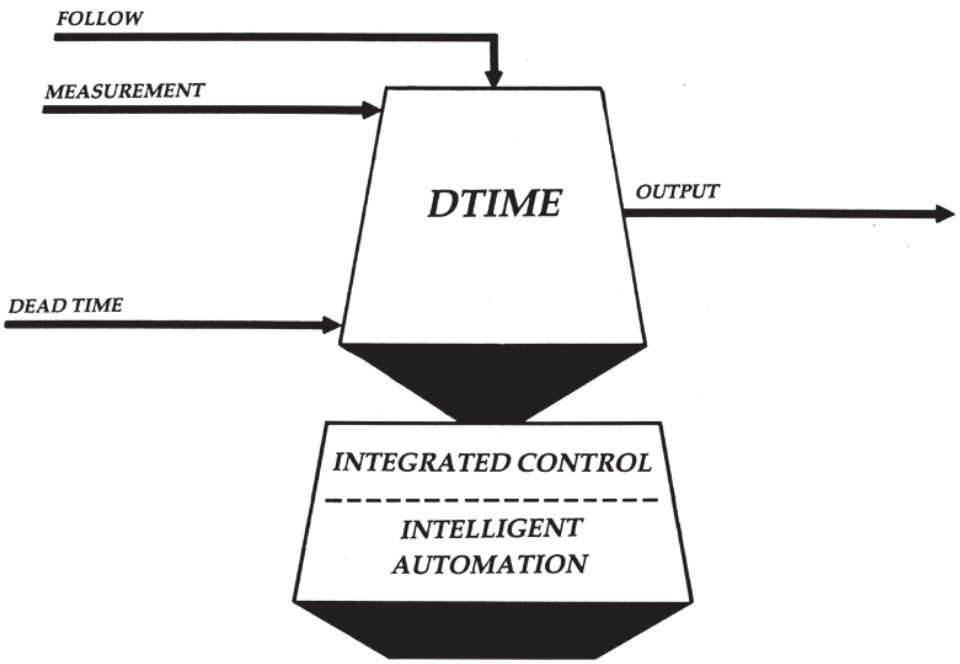
Foxboro Evo™ Process Automation System

Product Specifications

Foxboro® by Schneider Electric

PSS 31S-3DTIME

Dead Time (DTIME) Block



The Dead Time (DTIME) block is a dead time compensator which simulates the dynamic effects of pure delay, transport lag, or distance-velocity lag in a process.

OVERVIEW

The DTIME block introduces a user-specifiable delay of process measurement or control action. The effective amount of dead time compensation can be controlled in a varying manner by the variable dead time input. The algorithm used is based on a conventional analog shift register with improvements for real process control. These improvements allow for compensation of the nonlinear effects of a process on the internal state data in the analog shift register. When a change occurs in the process, a change in the dead time parameter changes the average time in transit from input to output which is equal to the appropriate value for a real process.

STANDARD FEATURES

- Manual/Auto control of output which can be initiated by either a host process or another block
- True dynamic variable dead time adjustment
- Follow mode: output tracks measurement

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