

SmartProcess™
Oil & Gas Applications

Gas Control Manager

Remote Automation Solutions



EMERSON
Process Management

An easily configured, automated valve switch for multiple meter runs



The Gas Control Manager application is a User Program for the ROC800 and FloBoss™ 107 that supports three primary functions:

- EFM Applications
- Cause & Effect
- Flow Summation

EFM Applications

The EFM Applications function is designed to easily configure the ROC800-Series and FloBoss products to do common gas measurement functions such as:

- Nomination control
- Odorization control
- Outputting a 4-20ma signal proportional to an input or calculation
- Total meter accumulators for volume/energy that can be reset
- Run Switching for up to 4 meter runs

The Gas Control Manager run switching function allows straightforward configuration of automated valve changes for multiple meter runs, as well as other commonly used control and logic functions in the electronic flow measurement environment, requiring no Function Sequencing Tables (FSTs) to be written.

Cause & Effect

The Gas Control Manager supports Cause & Effect-oriented interlock and permissive logic, typically defined on a Cause & Effect Logic Diagram. Designed for smaller applications associated with gas control, the embedded Cause & Effect function supports up to 16 causes and 8 effects. The Gas Control Manager allows the configuration of ROC800-Series and FloBoss devices to do logical operations without writing FSTs. A Cause would typically monitor a selected point that would be logically evaluated against a user defined set-point. Any tripped Cause linked to an Effect will force the action defined in that Effect. The layout of the configuration screens defines the logic by inputting entries from a Cause & Effect matrix. In many cases, the user can input the Causes & Effects line by line through the entire matrix. Each Cause configuration screen and Effect configuration screen will apply to a tag line in the user's Cause & Effect matrix.



Cause Configuration for FloBoss 107



Causes & Effect Operate Display

Flow Summation*

Station Sum Values provide the totalization of any selected meter runs into flow or volume results for station 1 or 2. Volume and energy results can then be placed into Softpoint tables or accessed directly through their Type, Logical Number, and Parameters. Resettable total station accumulators are available according to the totalization selections as well for station 1 or 2.

Station Total Accumulators for volume and energy will accumulate selected meter runs as a totalized result until manually reset. The point parameters used will accumulate to a huge number, and for all practical purposes, will never reach a point where it rolls over.

Gas Control Manager provides an easy-to-use solution to manage your control and logic requirements. Its configurable interface allows for less time spent on custom programming, and more productivity from your technicians.

*Flow Summation is for the FloBoss107 only. This feature comes standard into ROC800 without an additional application.

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