General Specifications

VP6F8620
Off-site Block Package

CENTUM VP

GS 33J15P10-01EN

[Release 6]

■ GENERAL

For off-site oil facility operation system (arrival of goods, transport, mixing, delivery), the function blocks are available for flow rate control, batch control, and mixing control.

■ FUNCTION SPECIFICATIONS

This document describes about VP6F8620 Off-site Block Package which provides off-site block with CENTUM VP.

• Flow rate control block (FSBSET)
• Blend master control block (BLEND)

The combined off-site block, motor operation block (MC-2, MC-3) and switch instrument block (S10) implements off-site batch delivery control and blend delivery control.

FlowRate Control Block

The control block is used for batch delivery control and component flowrate control on mixing control.

Input Processing Functions: Compensating computations and totalizing processing are applied to the pulse train input or analog input, and then the instantaneous flow rate (PV) is calculated.

Control Functions: Required types of control are conducted according to the control steps.

Output Processing Functions: The output is sent to the control valve (process output), or to another control block.
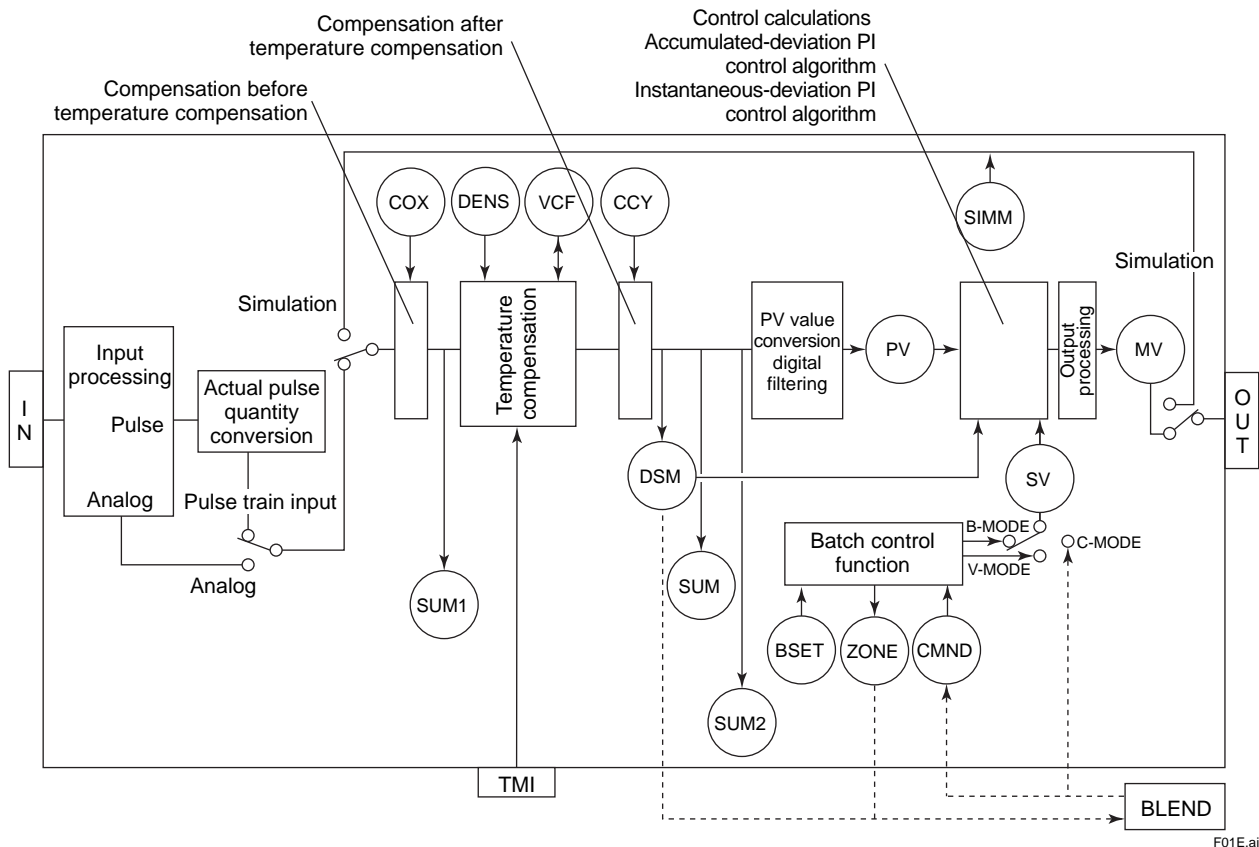

Figure FSBSET Function Block Diagram

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Brend Master Control Block

The control block sends output of each component's flow set value, and is used to manage multiple port on mixing control.

Input Processing Functions: The BLEND master acquires instantaneous-flow data from component FSBSET or BLEND to summarize and totalize them, and reads flow rate setpoints from port FSBSET or BLEND to obtain the totalized current flow rate setpoint.
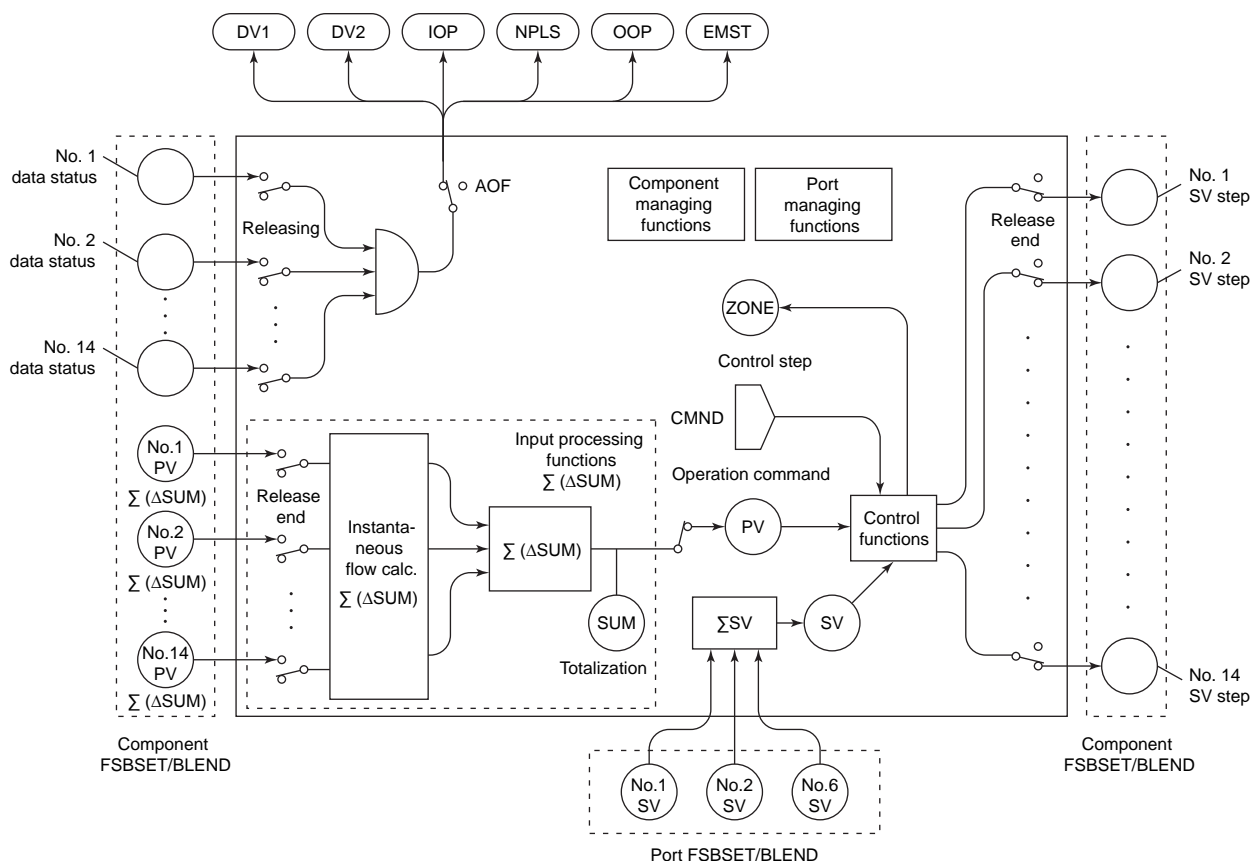
Component Management Functions: The BLEND master manages the component configuration and monitors for component flow alarms.

Port Management Functions: The BLEND master can also provide port batch functions.

Control Functions: The BLEND master manages control according to the control step.

Figure BLEND Master Function Block Diagram

■ APPLICATION CAPACITY

May be used as off-site block of off-site database on FCS.

■ OPERATING ENVIRONMENT

Hardware Requirements

AFV30S, AFV30D, AFV40S, AFV40D, A2FV50S, A2FV50D, A2FV70S, A2FV70D, and A2FVX1 (*1)

   *1:   This is the model for FCU kit that Processor Module (CP471), Power Module (PW481/PW482/PW484), and Baseplate
         (A2BE1D) can be ordered collectively as a unit.

Software Requirements

VP6F1700 Control Function for Field Control Station (for AFV30□/AFV40□), VP6F1800 Control Function for Field Control Station (for A2FV50□), VP6F1900 Control Function for Field Control Station (for A2FV70□), VP6F8100 Compressor Control for FCS.

Engineering Requirements

VP6E5100 Standard Engineering Function

■ MODEL AND SUFFIX CODES

Off-site Block Package

		Description
Model	VP6F8620	Off-site Block Package
Suffix Codes	-V	Software license
	1	Always 1
	1	English version

■ ORDERING INFORMATION

Specify model and suffix codes.

■ TRADEMARK ACKNOWLEDGMENT

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