



PRODUCT DATA BULLETIN

BULLETIN
CFC106
CHEMICAL
FLOW
CONTROLLER



STANDARD FEATURES

- ! 3 1/2 DIGIT LED OR LCD DISPLAY
- ! SIX INDIVIDUAL FLOW SETTINGS
- ! DRY CONTACT RUNNING INPUTS
- ! INDIVIDUAL AND TOTAL FLOWRATES ARE VISIBLE ON THE DISPLAY
- ! FLOWRATES ADJUSTABLE FROM FRONT
- ! TWO RELAY OUTPUTS -- ONE CONSTANT AND ONE PROPORTIONAL
- ! ONE PROPORTIONAL 4-20ma OUTPUT
- ! OPTIONAL 4-20ma CHART RECORDER OUTPUTS FOR EACH FLOWRATE
- ! LAMP TEST FEATURE
- ! 115/120 VAC @ 60 HZ POWER
- ! PANEL MOUNTED UNIT
- ! NAMEPLATE DIMENSIONS:
6 3/4" WIDE X 8" HIGH

DESCRIPTION

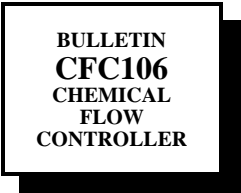
The CFC106 board is used to control chemical feeds based on the input of up to six pumps. It is ideal for situations in which a pump is used that does not provide a flow-proportional analog output signal. Up to six dry contact inputs can be used to indicate pumps running. Each input can be set to display up to 1999 on the display. Based on pump curves or field tests, each flowrate can easily be changed from the front of the unit. The total of all of the inputs is divided by 10 and shown on the display when desired. Normally, the display shows the total flow of the pumps that are currently running. There is one constant relay output, one proportional relay output and one 4-20ma (or 1-5vdc) proportional analog output provided on the basic unit. There is also an optional CFC420 analog output board which provides six 4-20ma (or 1-5vdc) outputs, which represent the input flowrates. Each of these outputs can be scaled for use with chart recorders with differing ranges.

SUGGESTED SPECIFICATIONS

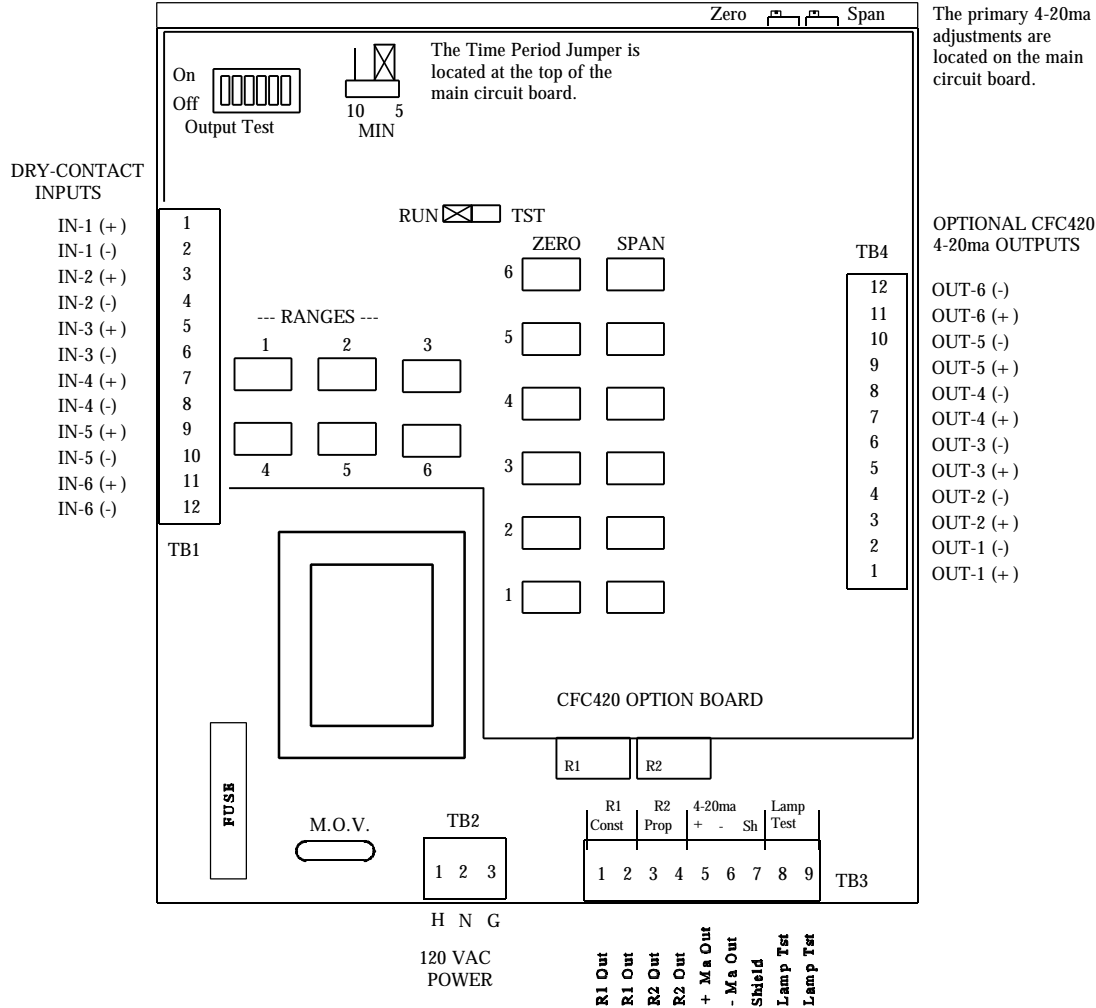
Provide a chemical flow controller which operates on 120 VAC @ 60 Hz power. The controller shall be provided with a 3 1/2 digit, .56" high, 7-segment LED display, with the option of providing an LCD display. Provide six (6) field adjustable flow settings, each adjustable from the front of the controller. Each flow setting shall be dedicated to a remote discrete input signal. An LED indicator shall be provided for each discrete input. The actual value of each flow setting shall be viewable at any time on the digital readout. The total of all flow settings shall also be displayed when desired. When more than one flow setting is receiving an input signal, the digital readout shall indicate the sum of all active inputs. The controller shall automatically sum the six flow settings and that sum shall be the total range of the controller. A 4-20madc or 1-5vdc output signal shall be provided, which is proportional to the total range of the controller. Provide a discrete isolated output contact rated at 5A @ 120VAC that will close continuously when any input is activated. Provide a discrete isolated output contact rated at 5A @ 120 VAC that will remain closed for a proportional time period. The proportional time period shall be a selectable range of either 5 or 10 minutes. The controller shall total all of the active inputs and calculate the percentage of the total dialed in flowrates. The proportional discrete output shall be enabled for this percentage of the selected time range. The controller shall be capable of producing six 4-20ma or 1-5vdc outputs equaling the set flow for each input. Each output has a scalable range for chart recorder use, which can be displayed on the digital display for calibration. Each output shall also have a test switch that enables the output in order to calibrate an external device to this unit, without having to activate the inputs. Provide a lamp test input that will activate the front panel LED indicators and all segments of the digital display.

SPECIFICATIONS

- M SUPPLY VOLTAGE: 115/120 VAC, 50/60 Hz
- M SUPPLY CURRENT: 90 ma
(Max. with optional 4-20ma output board = 200 ma)
- M POWER CONSUMPTION: 11 Watts
(Max. with optional 4-20ma output board = 24 Watts)
- M INPUT CONTROL VOLTAGE: 12 VDC @ 10 mdc
- M TEMPERATURE LIMITS: Operating: 0°C to 75°C
Storage: -15°C to 150°C
- M NAMEPLATE DIMENSIONS: 6 3/4" Wide X 8" High
- M PANEL CUTOUT DIMENSIONS: 6" Wide X 7" High



CFC106 FIELD CONNECTIONS



ORDERING INFORMATION

Chemical Flow Controller: CFC106
4-20ma Output board: CFC420

WARRANTY: Control Systems, Inc. (CSI) warrants equipment of its own manufacture to be free from defects in material and workmanship, under normal conditions of use and service, and will replace any component found to be defective on its return to CSI, transportation charges prepaid, within one year of its original purchase. CSI will extend the same warranty protection on accessories which is extended to CSI by the original manufacturer. CSI also assumes no liability, express or implied, beyond its obligation to replace any component involved. Such warranty is in lieu of all other warranties express or implied.



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