

Description

Indicates rate, total, and set points. Rate and total can be simultaneously displayed. The unit contains two process inputs, five control inputs, one current and four control outputs. A user-friendly menu system provides scrolling help messages to make programming simple when changes are required. The unit contains a set point lock out system to prevent unauthorized changes from the front panel and a 10-year memory backs up all program settings and flow parameters in case of a power failure. The unit can be factory programmed for your application. Use with Niagara's Nutating Disc, Oscillating Piston, and Turbine Flowmeters.

<u>Technical Information</u> Functional Specifications

Power Supply	18 to 27 VDC/6 Watts max, 0.4 Amps max or			
	1 phase 50/60 Hz 115/230 VAC +10% - 15%/0.2/0.1 Amps			
Accessory Power	Only if unit is AC powered/24 VDC ± 5%/100 mA max			
Temperature	Operating: 32° F to 131° F (0° C to 55° C)			
	Storage: -40° F to 158° F (-40° C to 70° C)			
Display Outputs	Two parameters simultaneously			
Display digits	6 for Rate, 10 for Total			
Flow Input A				
Туре	Current sinking (contact closure or npn transistor to ground)			
Impedance	5.8 KΩ pull-up resistor to + 5 VDC			
Logical Voltages	0.0 to 1.3 VDC or 2.8 to 24 VDC			
Response	0 to 40 Hz max with 10 msec minimum pulse width			
	0 to 400 Hz max with 1.5 msec minimum pulse width			
	0 to 7.5 KHz max with 50 µsec minimum pulse width			
Inhibit Flow Input I				
Туре	Current sinking (contact closure or npn transistor to ground)			
	Flow input ignored when pulled low			
Impedance	5.8 KΩ pull-up resistor to + 5 VDC			
Logical Voltages	0.0 to 1.3 VDC low, 2.8 to 24 VDC high			
Control Inputs	,			
Qty	5			
Type	Current sinking (contact closure or npn transistor to ground)			
Impedance	5.8 KΩ pull-up resistor to + 5 VDC			
Logical Voltages	0.0 to 1.0 VDC low, 3.5 to 24 VDC high			
Response	30 msec input			
Control Input 1	Use: Unlatch totalizer set point output			
Control Input 2	Use: Reset totalizer count			
Control Input 3	Use: Unlatch rate hi/lo set point outputs			
Control Input 4	Use: Unlatch totalizer set point output and unlatch rate hi/lo			
	set point outputs			
Control Input 5	Use: Reset totalizer count, unlatch totalizer set point output,			
· ·	and unlatch rate hi/lo set point outputs			
Analog Output				
Туре	4-20 mA isolated			
Voltage	12 to 27 VDC			
Response	0.5 seconds			
Accuracy	± 0.1 % at 25° C/± 0.25 % over temperature range			
Resolution	0.05% (11 bits)			
Control Outputs	,			
Qty	4			
Туре	Current sinking (npn transistor to ground)			
Rating	150 mA @ 30 VDC blocking maximum			
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Model 1030FW Indicator/Totalizer

1030F Indicator/ Totalizer

Control Output 1		
Response	0 to 10 Hz max with 50 msec minimum pulse width 0 to 200 Hz max with 2 msec minimum pulse width 0 to 1.5 KHz max with 125 µsec minimum pulse width	
Use	Scaled totalizer pulse output with designated pulse width	
Control Output 2	Use: Totalizer set point output/latched, or timed from 0.1 to 999.9 seconds	
Control Output 3	Use: Low rate set point output/follow flow, be latched, or timed from 0.1 to 999.9 seconds	
Control Output 4	Use: High rate set point output/follow flow, be latched, or timed from 0.1 to 999.9 seconds	
Communications		
Туре	RS-485	
Baud	300, 600, 1200, 2400, 4800, 9600, 19200	
Parity	space, even, or odd	
Protocol	Opto-22 compatible	

Physical Specifications

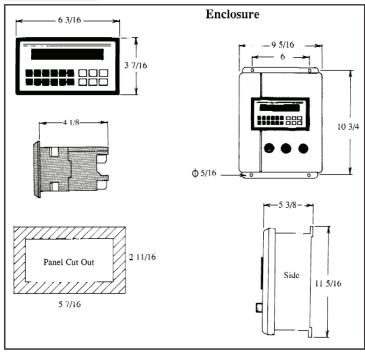
Display	Vacuum fluorescent
Panel Mount	NEMA 4X front panel with gasket for mounting
Wall Mount (opt.)	NEMA 4X enclosure with NEMA 4X front panel
Wiring	14 AWG maximum
Weight	Panel Mount: 2 lbs
	Wall Mount: 7 lbs

Ordering Information

Part #	Description

60380G281 Model 1030 FP panel mount 60380G283 Model 1030 FW wall mount

Dimensions





IT-B Rev. D

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