



TOTALIZER

MODEL EL0122

GENERAL SPECIFICATION
GS.No.GED713E-6

■ GENERAL

This compactly built LCD counter accepts a pulse signal from the flowmeter and displays both the totaled flow and instantaneous flowrate digitally (w/built-in power supply for the pulse generator).

■ FEATURES

1. Built around a single-chip CPU, it offers many valuable functions. A pushbutton selects the following four display modes:
 - ① Totalized flow, ② Resettable totalized flow, ③ and ④ Instantaneous flowrate (hourly / per-minute selectable).
2. Has a scaler and a frequency divider.
3. Transforms in the F/I converter the incoming pulse signal proportional to the flowrate into an analog signal (option).
4. High and low alarm output may be added (option)
5. Provides either an unfactored or factored pulse output.



Item			Specifications
Input Signal	Supply to Pulser		13.5V or 24V 50mA with overcurrent protection (NOTE)
	Trigger Level		3VDC, Hysteresis 0.8VDC
	Response Pulse		200Hz (50Hz with contact-closure pulse) Can respond to 2kHz with 1/10 or 1/100 frequency division
Output Signal	Pulse Output	Selection	Factored (synced with display) ---Standard, or sync with input unfactored.
		Output Signal	Open collector after optical isolation
		Capacity	30VDC 50mA max.
		"ON" Voltage	1.5VDC max.
		Pulse Width	1msec approx. (standard)
	Analog Output	Output Signal	4~20mADC or 1~5VDC
		Load Resistance	Current output: 350Ω max. Voltage output shorted 600Ω max.
		Accuracy	Within ±0.1% of FS (temperature coefficient 0.015%/°C)
		Ripple	Within 1% of FS (10% of FS)
		Time Constant	2.5 sec (standard)
	Hi/Lo Alarm	Output Signal	Static relay×2
		Capacity	230VAC /340VDC 200mA.
		"ON" Resistance	16Ω max. (Leak current 1 μA in the OFF)
Display	Display Type		LCD Character 12.7mm High
	Variables		Scrolls through available variables upon “MODE” button depression. 8-digit nonresettable Total flow 5-digit per-hour Flowrate 5-digit per-minute Flowrate 7-digit resettable Total flow
Backup			A nonvolatile memory (EEPROM) retains the data including parameters and accumulated total flow when the power is interrupted.
Ambient Temperature			−10~+50°C
Power Supply			85~264V AC 50/60Hz
Insulation Resistance			Greater than 10MΩ across power terminals grouped and GND terminal (500V DC Megger)
Withstand Voltage			1500V AC for one minute across power terminals grouped and GND terminal
Power Consumption			16VA max.
Mass			0.4kg approx.
Encloure			Resin frame + Alminum casing

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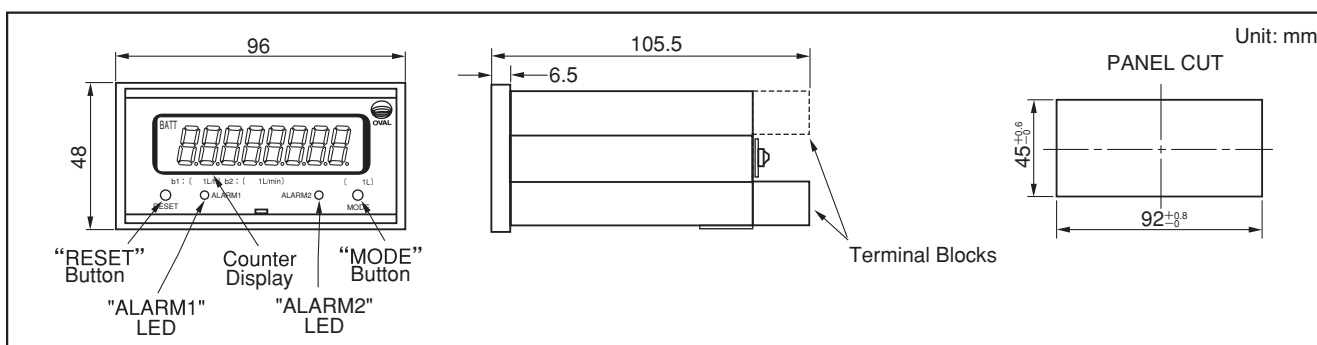
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■ OUTLINE DIMENSIONS



■ PRODUCT CODE EXPLANATION

ITEM	Product Code		Supplementary Code				DESCRIPTION
	1	2			10	11	12
Model	E	L	0	1			Totalizing Counter
Power Supply			7				85~264V AC 50/60Hz
Input Signal			2				2-wire or 12VDC 3-wire contact-closure pulse (PG20 equivalent)
			3				2-wire or 12VDC 3-wire voltage pulse (PG30, NPG60A(F) equivalent)
			4				24VDC 2-wire current pulse 4/20mA (PA14, 15, 25, NPG60A(E) equivalent)
			5				12VDC 2-wire current pulse (PG30S equivalent)
			6				2-wire or 12VDC 3-wire open collector pulse (Flowpet-EG, 3-wire NPG60A (E3) equivalent)
Output Signal (Open collector)			9				Other than above
			2				Pulse width: approx. 1 ms (std.)
			5				Pulse width: approx. 50 ms
			6				Pulse width: approx. 100 ms
			7				Pulse width: approx. 250 ms
Additional Function 1			0				None (std.)
			1				4 to 20mADC/1 to 5VDC
Additional Function 2			0				None (std.)
			1				A battery provided to light the LCD when the power is interrupted
Finish					1		Always "1" Munsell N1.5

■ TERMINAL CONNECTIONS

Terminal Block	Terminal No.	Symbol	Description
Bottom	1	SUP.	FLOW INPUT ← 4/20 mA DC current pulse ← Contact-closure pulse ← Contact/Tr. Open/2-wire ← Voltage pulse
	2	SIG.	
	3	OV	
	4	+	PULSE OUT ← Open collector ← Pulse width: 1 ms (std.)
	5	-	
	6	L ₁ (+)	POWER ← AC power
	7	L ₂ (-)	
Top (Option)	8		Ground
	1	+	ANALOG OUT ← 4~20 mA DC ← 1~5 VDC CAUTION : Short out terminals 1-2 if unused. Analog voltage output does not appear across terminals 3 - 4 unless shorted out.
	2	-	
	3	+	
	4	-	
	5		ALARM 1 OUT ← Static relay ← (Polarity observation not required)
	6		
	7		ALARM 2 OUT ← Static relay ← (Polarity observation not required)
	8		

■ When making inquiries, please advise the following:

(Fill in the blanks and check ☐ with ☒ mark)

1. Companion flowmeter type and model
2. Power to pulse generator: _____
3. Type and model of pulse generator (type and spec. of input signal)
4. Type of output signal:
☐ Factored pulse ☐ Unfactored pulse
☐ Analog or alarm
5. Type, model and spec. of the receiving instrument to be connected:
6. Power supply: _____
7. Conditions of installation location and other information.

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