



PULSE CHECKER MODEL PC2201

GENERAL SPECIFICATION
GS.No.GES002-2-E

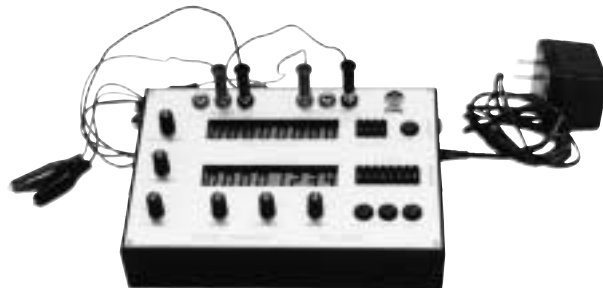
■ GENERAL

This instrument is designed to ease inspection, adjustment and maintenance of digital industrial instruments. It is a versatile servicing tool which offers such capabilities as pulse integration and frequency measurement, and has variable frequency output and batch pulse output required to service a variety of modern digital instruments.

Nearly all basic inspection and adjustment of flowmeters, converters, receiving instruments, computing instruments, etc. manufactured by OVAL can be done by using this instrument.

■ FEATURES

1. A unique servicing instrument with input and output capabilities to pulse signals at various levels.
2. Input capabilities include pulse integration, frequency measurement and gated integration.
3. Capable of furnishing pulse signal generation of different



- levels (frequency divider included), 8 digits batch preset quantity and pulse width selection as output capabilities.
4. Total count and frequency are digitally indicated with light emitting (LEDs).
5. Compact design and sturdy construction for maximum portability.

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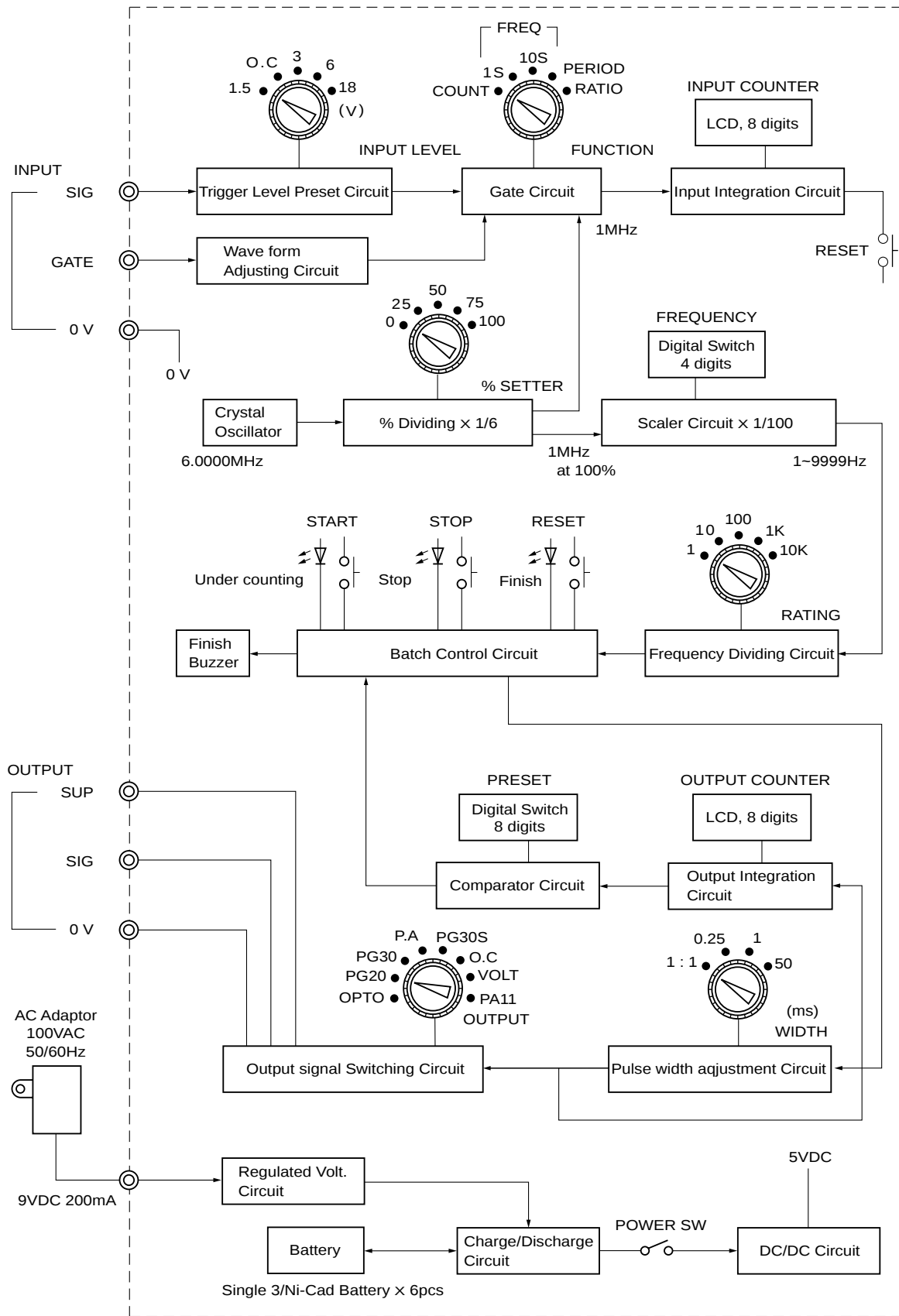
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■ GENERAL SPECIFICATIONS

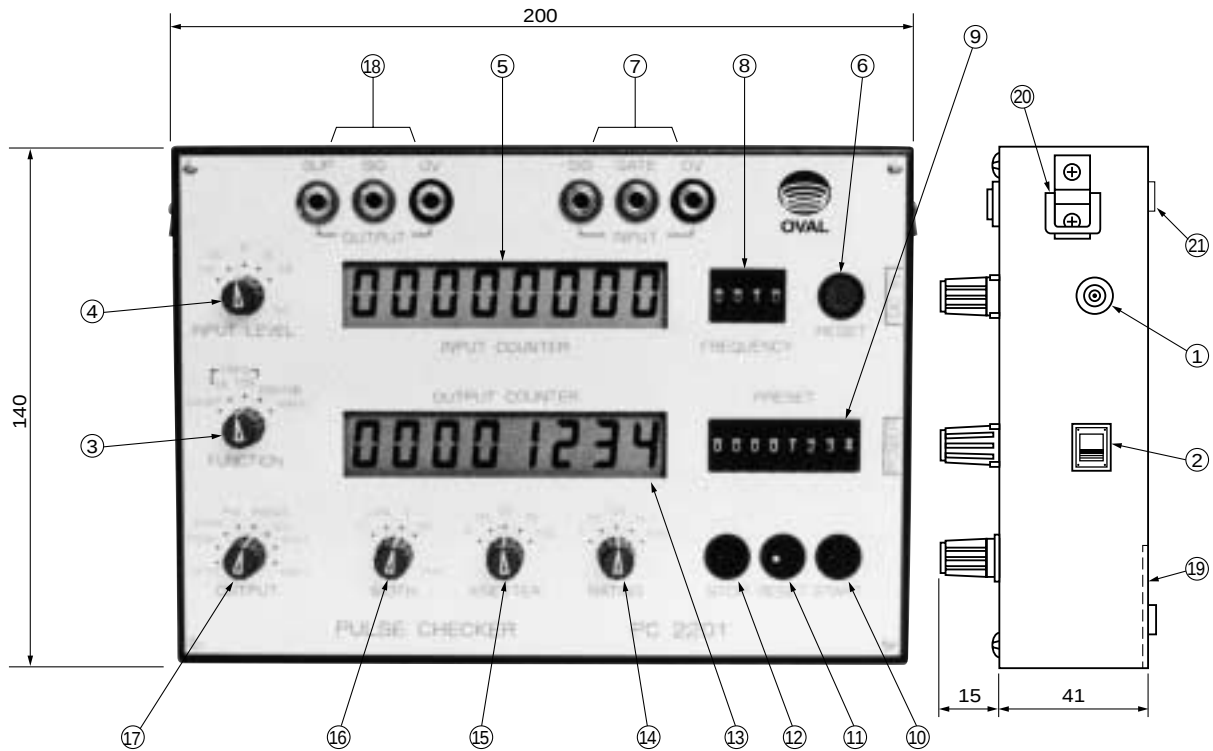
Item		Description																								
INPUT FUNCTION	Display	[INPUT COUNTER] : Display LCD, 8 digits																								
	Function	[COUNT]Totalizing Counter [FREQ 1s]Frequency Counter with 1 sec. gate [FREQ 10s]Frequency Counter with 10 sec. gate [PERIOD]Period Counter with 1 MHz pulses [RATIO]Totalizing Counter with gate function																								
	Trigger Level	<table><tr><td></td><td>Trigger Level</td><td>Response</td><td>Remark</td></tr><tr><td>[1.5]</td><td>1.5/1.4V ±5%</td><td>300kHz Max.</td><td></td></tr><tr><td>[O.C]</td><td>11.3/9.4kΩ ±5%</td><td>10kHz Max.</td><td>W/Pull-up resistance</td></tr><tr><td>[3]</td><td>3.0/2.9V ±5%</td><td>10kHz Max.</td><td></td></tr><tr><td>[6]</td><td>6.0/5.8V ±5%</td><td>10kHz Max.</td><td></td></tr><tr><td>[18]</td><td>18.1/17.5V ±5%</td><td>10kHz Max.</td><td></td></tr></table>		Trigger Level	Response	Remark	[1.5]	1.5/1.4V ±5%	300kHz Max.		[O.C]	11.3/9.4kΩ ±5%	10kHz Max.	W/Pull-up resistance	[3]	3.0/2.9V ±5%	10kHz Max.		[6]	6.0/5.8V ±5%	10kHz Max.		[18]	18.1/17.5V ±5%	10kHz Max.	
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[18]	18.1/17.5V ±5%	10kHz Max.																								
Oscillation Mode	Crystal Oscillator : 6±0.0001MHz																									
Frequency	Outout Frequency = $\frac{[\text{FREQUENCY}]}{[\text{RATING}]} \times \frac{[\% \text{ SETTER}]}{100}$ [Hz]																									
Display	[OUTPUT COUNTER] : LCD 8 digits																									
Batch Operation	Preset : [PRESET]	8 digits Digit Switch																								
	Operation : [START]	Green LED “Counting” Push button Switch																								
	: [STOP]	Red LED “Stop” Push button Switch																								
	: [RESET]	Yellow LED “Finish” Push button Switch Alarming by Buzzer for 1.5 sec.																								
OUTPUT FUNCTION	Pulse Width	[1 : 1] Pulse of which ON/OFF ratio is 1:1 [0.25] Pulse width : 0.25ms±10% [1] Pulse width : 1ms±10% [50] Pulse width : 50ms±10%																								
	Output Mode	[OPTO]..... Transmitter, OPTO OD01. 02, & Equivalent																								
		[PG20]..... Transistor Open Collector Output (To be 30VDC, less than 20mA)																								
		[PG30]..... Transmitter, PG30, NPG60A(F) & Equivalent																								
		[P.A]..... Transmitter, PA14, 15, 25, NPG60A(E) & Equivalt																								
		[PG30S] Transmitter, PG30S & Equivalent																								
		[O.C] Transistor, Open Collector Output (To be 30VDC, less than 20mA)																								
		[VOLT]..... Voltage Power supplied by Internal Battery of 5VDC																								
		[PA11]..... Transmitter PA11 & Equivalent																								
	Power Supply	AC Adapter and Internal Battery AC Adapter : 100 VAC±10%, 50/60Hz Internal Battery : DC3V/700mAh Ni. Cad. × 6																								
	Power Consumption	5VA Max.																								
	Ambient Temperature	0~40°C																								
	Finish	Black																								
	Mass	2kg apporx.																								

■ SYSTEM BLOCK DIAGRAM



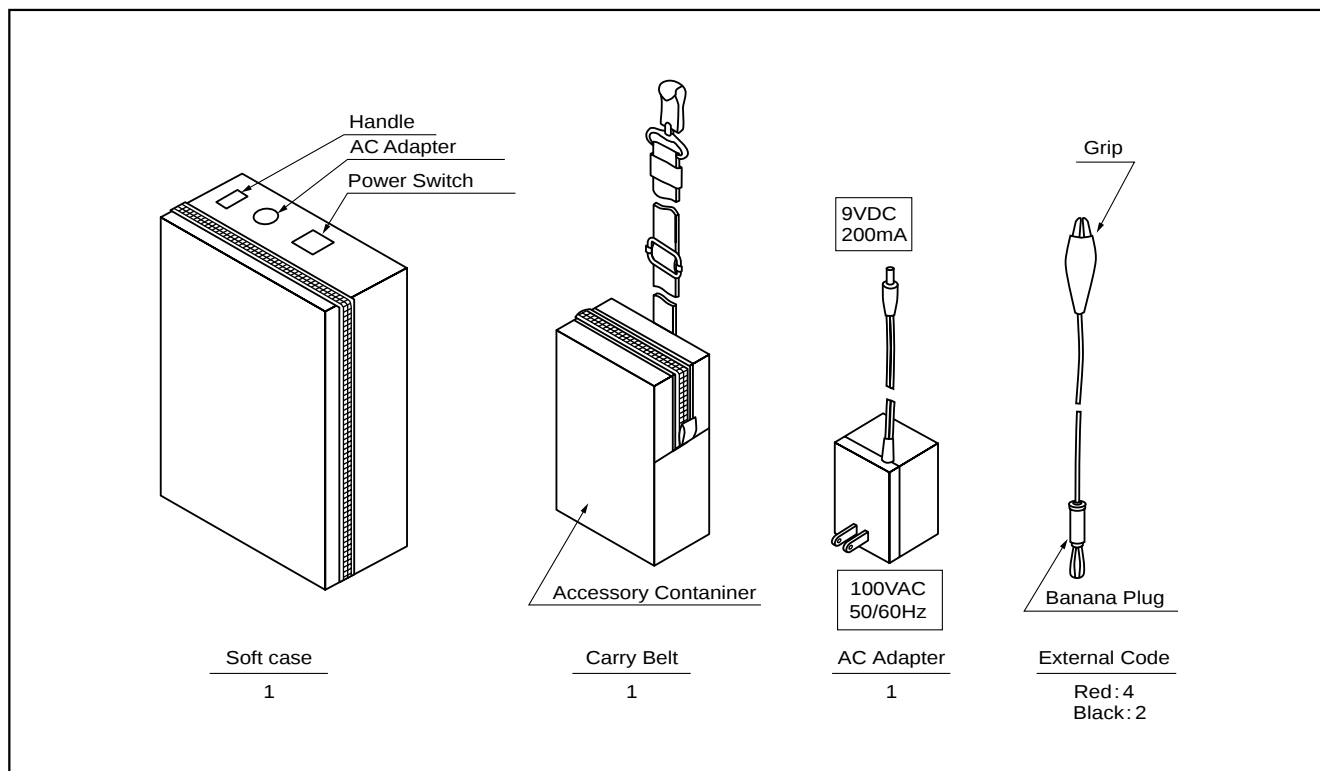
NOTE : in case of testing voltage pulse generators manufactured by OVAL (PG30, PG30S, preamplifiers, etc), a power source for respective pulse generator is required.

■ FRONT PANEL CONTROLS AND FUNCTIONS



No.	Name	Description
1	DC IN	Fits special AC adapter
2	POWER	Power Switch
3	FUNCTION	Rotary Switch for selection of Input Integrator Function
4	INPUT LEVEL	Rotary Switch for selection of Trigger Level of Input Pulse
5	INPUT COUNTER	Input Integrator with 8 digits of LCD.
6	RESET	Push Botton Switch for resetting of Input Integrator
7	INPUT	Input Terminal for Banana Plug of the Code attached.
8	FREQUENCY	4 digits Digital Switch for presetting of Reference Frequency
9	PRESET	8 digits Digital Switch for presetting of Output Pulse Frequency
10	START	"START" Push Button Switch with LED (green) for Output Integrator.
11	RESET	"RESET" Push Button Switch with LED (yellow) for Output Integrator.
12	STOP	"STOP" Push Button Switch with LED (red) for Output Integrator.
13	OUTPUT COUNTER	Output Intergrator with 8 digits at LCD
14	RATING	Rotary Switch for Dividing of Reference Frequency
15	% SETTER	Rotary Switch for % Setting of Reference Frequency
16	WIDTH	Rotary Switch for presetting of Output Pulse Width
17	OUTPUT	Rotary Switch for Selection of Output Transmitter Model
18	OUTPUT	Output Terminal for connecting of Banana Plus of the code attached.
19		Battery Chamber Cover
20		Belt Hook
21		Rubber Patch

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