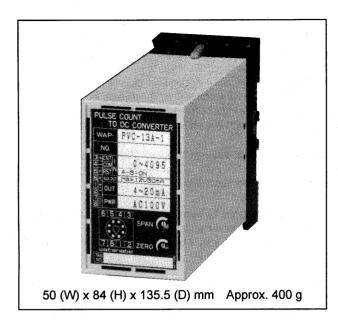
PULSE INTEGRATING/DC CONVERTER (PULSE ACCUMULATOR)

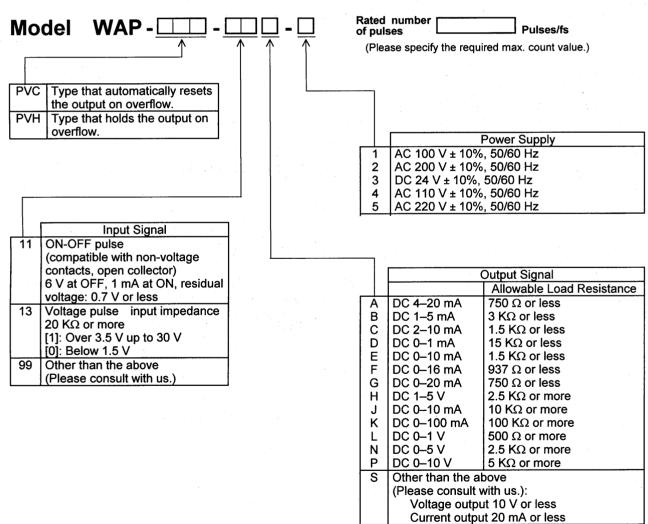
WAP-PVC/PVH



This plug-in type signal converter counts the number of input pulses and delivers a DC signal proportional to the integrated value. It is extremely suitable for applications where signals of flow rates, revolutions or displacements, detected in the form of pulses, have to be converted into analog signals corresponding to integrated flow rates, cumulative revolutions or cumulative distances for subsequent recording on chart recorders or feeding to computer systems.

Features

- Can be combined with nearly every type of pulse pickup available in the markets.
- Delivers signals with excellent linearity and repeatability.
- Has its input, output and power supply isolated from one another with a dielectric strength of 2,000 VAC.
- Small-sized plug-in type, which is attached to or detached from DIN rails by a one-touch action.



Specifications

Count:

0 to max. 4,095

Input frequency:

max. 10 kHz

Input filter:

Can limit to max. 30 Hz, at the request.

Receiving resistor:

Can be built into the unit, if specified between 200 Ω and 1 K Ω .

Accuracy: Response time: ±0.2% fs (at 23°C) Less than 1 msec

Reset input:

Resetting terminals are short-circuited. When the terminals are short-circuited. the unit ceases to count, and delivers the same signals as when it counts zero.

Initial resetting:

Count reset within 0.5 sec after power is switched on.

Allowable load resistance:

In case of voltage output, use the unit with a load current of 2 mA or less (1 µA or

less for an output below 1 V·fs).

In case of current output, use it with a voltage drop of 15 V or less between

output terminals.

Operating temperature and humidity: -5 to +60°C, 90% RH or less (without condensation)

Influence of ambient temperature:

±0.15% · fs/10°C

Insulation resistance:

100 M Ω or more with a 500 VDC megger between input and output terminals,

and between input/output terminal and power supply terminal

Dielectric strength:

2,000 VAC for 1 minute between input and output terminals, and between

input/output terminal and power supply terminal

Power consumption: Sensor power supply: Approx. 5 VA (AC), 180 mA (DC) 12 VDC ±5%, 50 mA (max.)

Zero & span adjustment:

Zero adjustment: ±5% · fs (multi-turn trimmer) Span adjustment: ±10% fs (multi-turn trimmer)

Major Applications

- Recording of drilling depths on chart recorders.

Conversion into analog signals of volume of raw materials fed in.

Output Waveform

For Type WAP-PVC Reset input Output

Pin and Terminal Assignment

	No.	Symbo	ol	Description
6 5 4 3	1 2	OUTPUT	+	Output signal
H65U43H	3	INPUT	+	Input signal
0.0	4	COMMON		Common
©(:(Q;)(o	5	RESET	+	Reset
	6	SENSOR	+	Sensor power supply
	7	POWER	U (+) V (-)	Power supply