

§ BOX TRANSDUCER § SIGNAL TRANSDUCER

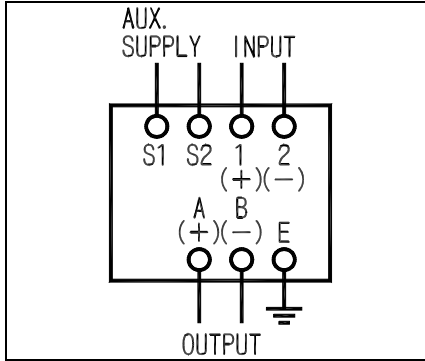
ANALOG PULSE TRANSDUCER

ANALOG PULSE TRANSDUCER VF-82A

Use

Input is DC signal such as power/current transducer.
Convert to frequency pulse in proportion to input.

Connection diagram



VF-82A

(120 × 56 × 130mm/500g)

Specifications

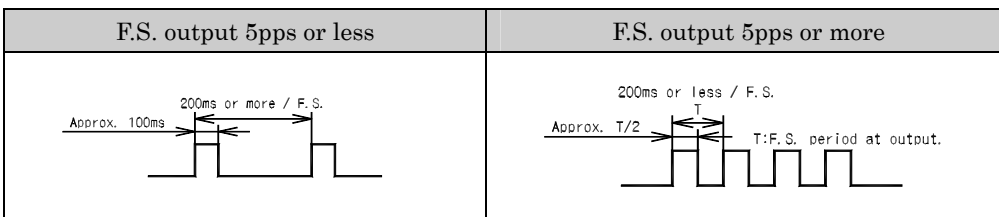
Kind of input (input resistance)	Output signal method	Auxiliary supply	Common specifications
<ul style="list-style-type: none"> 1 : 0-1V (Approx. 50kΩ) 2 : 0-5V (Approx. 50kΩ) 3 : 0-10V (Approx. 50kΩ) 4 : 1-5V (Approx. 50kΩ) 5 : 0-1mA (Approx. 100Ω) 6 : 0-5mA (Approx. 100Ω) 7 : 0-10mA (Approx. 100Ω) 8 : 0-16mA (Approx. 100Ω) 9 : 4-20mA (Approx. 100Ω) 0 : other than those above 	<ul style="list-style-type: none"> 1 : voltage pulse 10Vp (load 2k) 2 : Tr. open connector (O.C.) DC48V, 100mA MAX. 	<ul style="list-style-type: none"> 1 : AC100V±15%, 50/60Hz 2 : AC110V±15%, 50/60Hz 3 : AC200V±15%, 50/60Hz 4 : AC220V±15%, 50/60Hz 5 : DC24V±15% 6 : DC48V±15% 0 : other than those above 	Tolerance: ±0.5% Response time: 0.1sec. or less/99% Consumption VA: AC power source 2.5VA DC power source 3W Weight: 500g

Use VF2-83A for 110V DC power source.
At the time of min. input value below: no output pulse.

Input/output non-insulation type

This product is non-insulation type. (-) side of each input and (-) side of output are electrically common.

Output pulse



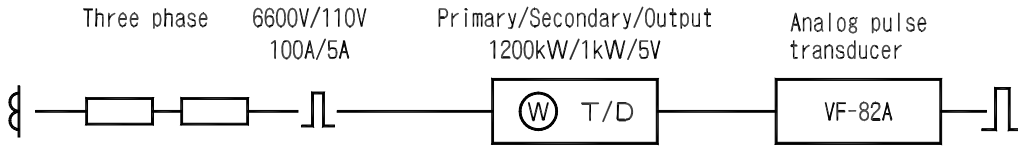
F.S. output: 0.01111-277.8pps (40pulse/h-1, 000, 000pulse/h).

Purchase specifications

Type	Specification code	Output
VF - 82A	<div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">2</div> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;">1</div> </div>	3.333pps
	Input → Output signal method → Auxiliary supply →	Please specify number of output pulse by 4 effective digits. For example, specify 0.2778pps for the case of 0.27777...pps.

Sample of use

(About pulse constant in integrating power and analog pulse transducer).



Primary pulse constant:

Integrating pulse number when the device is operated for 1 hour in 1kW at primary side power.

Secondary pulse constant:

Integrating pulse number when the device is operated for 1 hour in 1kW at secondary side power.

Pulse constant: pulse/kWh

Primary F.S. power/F.S. input	Primary pulse constant	Pulse number/F.S. input/hour	Pulse number/F.S. input/sec.	Input/output (VF-82A)
1, 200kW/5V	10pulse/kW/h Primary	1, 200×10/1, 200kW/h primary 1, 200×10/5V/h	3.333pulse/1, 200kW/s primary 3.333pulse/5V/s	5V/3.333pps
1, 200kW/5V	1, 000pulse/kW/h	1, 200×1,000/1, 200kW/h primary 1, 200×1,000/5V/h	3.333pulse/1, 200kW/s primary 3.333pulse/5V/s	5V/3.333pps
Primary F.S. power/secondary F.S. input/F.S. input	Secondary pulse constant	Pulse number/F.S. input/hour	Pulse number/F.S. input/sec.	Input/output
1, 200kW/1kW/5V (6.600/110V 100/5A)	1, 200pulse/kW/h secondary 10pulse×6, 600V/ 110V×100A/5A	12,000pulse/kW/h secondary 12,000pulse/5V/h	3.333pulse/kW/s secondary 3.333pulse/5V/s	5V/3.333pps