

§Small-sized plug-in transducers§

1 output type

AC current transducer

FSAT

Application

Converts AC current in an electric power system into a DC signal in proportion to input. With input and output insulated, the product offers full advantages in transmitting insulated signals between measuring systems, cutoff of noise, protecting a control circuit from a sneak current, and transmitting an output directly to a distant place. Up to 16 units can be housed in an installation base.

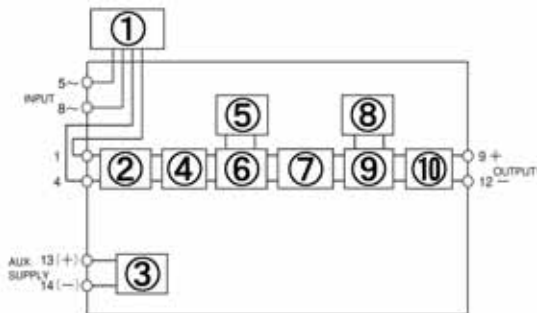
Feature

1. Compact and high withstand voltage.
2. Withstand voltage between input/output/auxiliary supply/outer case is AC2, 000V (50/60Hz) for 1 min..
3. Constant voltage/current output type. No need to adjust the product if it operates within load resistance range.
4. A LED can confirm status of electric power applied.
5. Zero/span is adjustable. ($\pm 2\%$ adjustable)
6. Because the device is RMS value operation type, it can also be used with a distorted waveform or a SCR waveform.
7. Current transformer does not open even if the device is pulled out from a hot line.



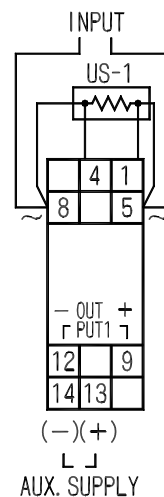
23 × 76 × 125mm/160g

Block Diagram



- ① Shunt resistance unit
- ② RMS value converter circuit
- ③ Insulated power source circuit
- ④ Smoothing circuit
- ⑤ Oscillating circuit
- ⑥ Pulse width modulation circuit
- ⑦ Photo coupler insulation
- ⑧ Reference voltage
- ⑨ Pulse width demodulation circuit
- ⑩ Output circuit

Connection diagram (socket)



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Specification

How to specify

Type name

FSAT -

Specification code

X X X 0

* Kind of specifications	Input	Output (load resistant)	Auxiliary supply	Power fuse	Common specification
1 : 8-pin socket (FS08) 3 : Installation base use FSBS- □ □ N use FWBS- □ □ N use 4 : Installation base use (Power switch built-in is possible.) FWBA- □ □ □ N use	1 : AC0-1A 2 : AC0-5A 2 : other than those above *2 (See product range)	1 : DC0-100mV (200) 2 : DC0-1V (200) 3 : DC0-5V (600) 4 : DC0-10V (2k) 5 : DC1-5V (600) A : DC0-1mA (10k) B : DC0-5mA (2k) C : DC0-10mA (1k) D : DC0-16mA (600) E : DC1-5mA (3k) F : DC4-20mA (750) 2 : other than those above *1 (See product range)	F : AC/DC80-264V Rated Voltage AC100/110V 50/60Hz AC200/220V 50/60Hz DC100/110V 5 DC24V (DC19-30V)	1 : without fuse 2 : with fuse	Conversion accuracy: ± 0.5% Temperature characteristics: 0.25%/10 Response time: 0.25s/90% Consumption VA: At 5A input: 0.3VA At 1A input: 0.1VA At AC110V: 3.5VA At AC220V: 4.5VA At DC110V: 2.0W At DC24V: 2.0W Weight: Without socket: approx.130g With socket: approx.160g

*1 Consult with us for specification other than those indicated in the table above.

Note1) A purpose-built shunt resistance unit is attached to each kind of product as an accessory. The shunt and the product have identical numbers, and make sure to confirm the numbers before use. If the numbers are different, it may result in a big error.

Note2) Wiring of shunt resistance unit must be implemented in accordance with Connection diagram. Miswiring or not using a shunt resistance unit may result in open of current transformer (CT) and lead to a trouble.

* In the [Kind of specifications]

- 1**: A FS08 shunt resistance unit and a socket (FS08) shall be attached if 8-pin socket was specified. Shunt resistance unit for FS08 is for exclusive use of FS08 and can not be used in other specification.
- 3**: A installation base shunt resistance unit shall be attached if installation base was specified. This shunt resistance unit is for exclusive use of installation base and can not be used in other specification. There is no socket attached for installation base.

Product Range (including special handling)

Input	Output
Input current AC0- (100mA-6A)	Current output:0-(1mA-20mA) Voltage output: 0-(10mV-10V)

Input current other than 1A and 5A is subject to special handling.