

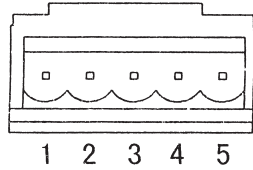
# FD51XX-19

## Specifications for process signal input unit with sensor power supply

Note that this unit can be used when an AC drive power supply unit is built in it, but not when a DC drive power supply unit is built in it.

For specification other than the following, refer to the instruction manual for "Mainframe".

### 1. Terminal Arrangement



No.	Name	Description
1	V-IN	Positive input terminal for 1 to 5 V range
2	A-IN	Positive input terminal for 4 to 20 mA range
3	LO	Negative input terminal
4	+EXC	Power output for sensor (positive)
5	-EXC	Power output for sensor (negative)

### 2. Input Specifications

Range	Measurement range	Indication	Input impedance	Maximum permissible input	Accuracy
1V	1 to 5V	Offset : $\pm 9999$ Full scale : 0 to $\pm 9999$	About $1M\Omega$	$\pm 100V$	$\pm (0.2\% \text{ of FS})$
2A	4 to 20mA		About $10\Omega$	$\pm 100mA$	

Input circuit : Single ended type

Operating system :  $\Delta \Sigma$  conversion

Maximum sampling rate : 12.5 times per second

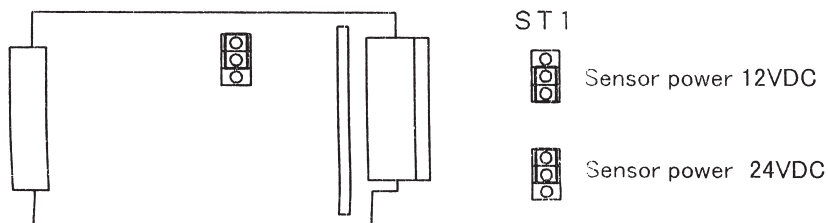
Noise rejection ratio : NMR (normal mode rejection) 50 dB or more (50 or 60 Hz)

Sensor power : 24VDC  $\pm 10\%$ , 25mA or 12VDC  $\pm 10\%$ , 50mA

### 3. Procedure for changing sensor power supply voltage

Change a sensor power supply voltage of 24VDC to 12VDC and vice versa according to the following:

Remove the set from the case and then change the position of the selection socket on the input unit shown in the Figure below.



#### ⚠ Caution

- (1) Prior to factory shipment, the sensor power supply voltage is set to 24VDC. (by selection socket of inside)
- (2) If the load exceeding the rating is connected to the sensor power supply, the sensor power supply is turned off (open) (Protect mode).  
When returning from the protect mode, turn the power on again.
- (3) Before changing the sensor power supply voltage, always turn off the power of the set.