

# JUXTA F Series General Specification

Model FX1□-HS (Variable software type)  
Hi-Selector

JUXTA

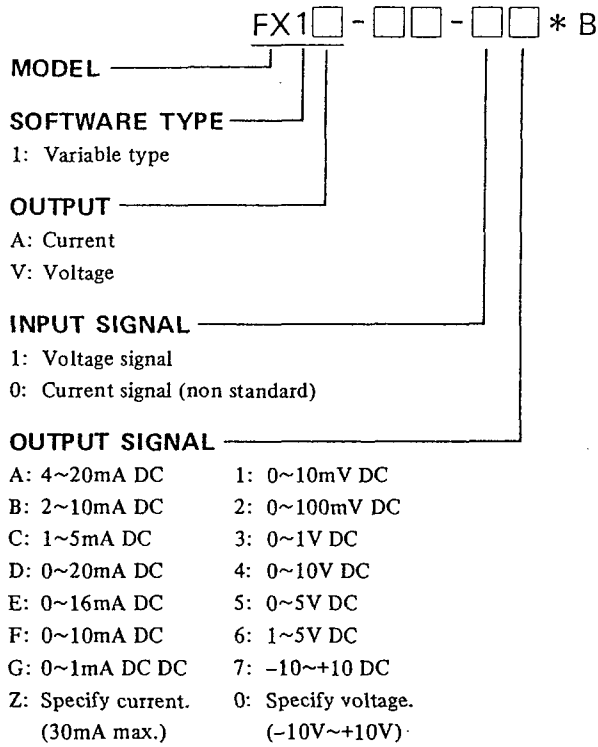
## 1. GENERAL

This is a variable software type computing unit which accepts two voltage signal inputs from various converters and outputs one input signal whichever is the higher as isolated DC voltage or current signal.

## 2. SPECIFICATIONS

|                                |  |
|--------------------------------|--|
| Model No.                      | FX1A-HS, FX1V-HS   |
| Input signal                   | DC voltage signal: 2 points<br>$V_0$ to $V_{100}$ correspond to 0 to 100%.   |
| Measuring range                | 0 to 10 V DC (Measuring span: More than 2 V) *1  |
| Input resistance               | 1 M $\Omega$ (At power failure: More than 100 K $\Omega$ )   |
| Output signal                  | 4 to 20mA, 2 to 10mA, 1 to 5mA, 0 to 20mA, 0 to 16mA, 0 to 10mA or 0 to 1mA DC<br>0 to 10mV, 0 to 100mV, 0 to 1V, 0 to 10V, 0 to 5V, 1 to 5V or -10 to +10V DC |
| Basic accuracy                 | $\pm 0.1\%$ of measuring span  |
| Signal insulation              | Between input signal and output signal/power supply circuits, and between output signal and power supply circuits  |
| Insulation resistance          | Between input signal and output signal/power supply circuits, and between output signal and power supply circuits: 100 M $\Omega$ /500 V DC                    |
| Dielectric strength            | Between input signal and output signal/power supply circuits: 1500 V AC/min<br>Between output signal and power supply circuits: 500 V AC/min                   |
| Power supply voltage           | 24 V DC $\pm 10\%$   |
| Ambient temperature/humidity   | 0 to 50°C (32 to 122°F) and 5 to 93% relative humidity (No condensation)   |
| Effect of ambient temperature  | $\pm 0.2\%$ of span for 10°C (50°F) change   |
| Effect of power supply voltage | $\pm 0.1\%$ of span for 24 V DC $\pm 10\%$ variation   |
| Power consumption              | 24 V DC, 60 mA (Voltage output) and 24 V DC, 82 mA (Current output)  |
| Dimensions                     | 72 (2.83") H $\times$ 24 (0.94") W $\times$ 127 (5.00") D mm (inch)  |
| Weight                         | Approx. 130 g  |
| Accessories                    | Tag number label : 1 sheet<br>Mounting blocks: 2 pcs.  |

(\*1) Specify measuring range from □ to □ V.



Ordering Information

| Measuring Range of Input  |   |
|---|---|
| Voltage input signal:<br>2V min. Span for 0~10V DC<br>Current input signal (input resist. 250Ω):<br>(250Ω) × (Input current) shall be within the<br>measuring span of voltage input signal. |   |
|   | Recommended Range   |
| Current signal  | 4~20mA DC<br>2~10mA DC<br>0~20mA DC<br>0~16mA DC<br>0~10mA DC |
| Voltage signal  | 0~10V DC<br>0~ 5V DC<br>1~ 5V DC                              |

(Note) Change of input between voltage and current is impossible by Handy Terminal.

**OUTPUT RESISTANCE AND LOAD RESISTANCE**

| Output Signal | Load Resistance | Output Impedance |
|---------------|-----------------|------------------|
| 4 to 20mA DC  | 0 to 750Ω       | 5MΩ or more      |
| 2 to 10mA DC  | 0 to 1500Ω      |                  |
| 1 to 5mA DC   | 0 to 3000Ω      |                  |
| 0 to 20mA DC  | 0 to 750Ω       |                  |
| 0 to 16mA DC  | 0 to 900Ω       |                  |
| 0 to 10mA DC  | 0 to 1500Ω      |                  |
| 0 to 1mA DC   | 0 to 15kΩ       |                  |

| Output Signal  | Load Resistance | Output Impedance |
|----------------|-----------------|------------------|
| 0 to 10mV DC   | 100kΩ or more   | 100Ω or less     |
| 0 to 100mV DC  |                 |                  |
| 0 to 1V DC     | 2kΩ or more     | 1Ω or less       |
| 0 to 5V DC     |                 |                  |
| 1 to 5V DC     |                 |                  |
| 0 to 10V DC    | 10kΩ or more    |                  |
| -10 to +10V DC |                 |                  |

Subject to change without notice for grade up quality and performance