



## MU-N11

Multi-Sensor Controller, Main unit



## Specifications

Model		MU-N11
Main unit/Expansion unit		Main unit
Response time		Depends on the connected sensor model*1
Expansion units		Up to 4 expansion units*2
I/O	Control output	4 max., NPN open collector/PNP open collector selectable, 24 V or less, Main unit: 50 mA or less*3, Expansion unit: 20 mA or less, Residual voltage: 2 V or less, N.O./N.C. selectable *1*4
	External input	5 max., Short-circuit current: NPN: 1 mA or less, PNP: 2 mA or less, For the applied voltage, see wiring diagrams (page 3 of the instruction manual) *1*4
	Analog output	1 max., Current output/ Voltage output selectable, Current output: 4 to 20 mA, Max. load resistance: 450 Ω, Voltage output: 0 to 10 V, External load resistance: 5 kΩ or more *1*4
Protection circuit		Protection against reverse power connection, power supply surge, output overcurrent, output surge, and reverse output connection
Power supply	Power voltage	24 VDC, ripple (P-P) 10% or less, Class 2 or LPS
	Current consumption	70 mA or less (without load)*5
Sensor connection specification	Allowable sensor current	150 mA or less
N-bus connection specification	Allowable passing current	1200 mA or less
Environmental resistance	Ambient temperature	-20 to +50 °C -4 to 122 °F (No freezing)
	Relative humidity	35 to 85 % RH (No condensation)
	Vibration resistance	10 to 55 Hz, Double amplitude 1.5 mm 0.06", 2 hours in each of the X, Y, and Z directions
	Shock resistance	1,000 m/s <sup>2</sup> , 6 times in each of the X, Y, and Z directions
Material		Case and dust cover: Polycarbonate Buttons: Polyacetal Display panel: PMMA

Weight	Approx. 70 g
--------	--------------

- \*1 The response time, as well as the types and number of inputs and outputs that are available, vary depending on the connected sensor model. For details, see the specific "MU-N Series User's Manual" for the model that will be connected.
- \*2 Up to 5 N-bus devices, including the main unit (or network unit), can be linked together.
- \*3 20 mA or less: When using the expansion unit.
- \*4 For more information on Control output, External input, and Analog output wire allocation, please refer to the table of "Power Cable Pin Layout" on page 3 of this manual.
- \*5 1500 mA or less when a sensor is attached, 4 outputs (with loads) are used, and expansion units are connected.

## Dimensions

\* Download CAD file or product manual for larger image/text and more detail.

mu-n11\_dimension\_01.gif

MU-N11

