



MAS-DX-08-D 8-Channel AC Input Module

Masibus 8-Channel AC Input Module is designed to interface variety of Analog signals from Field Power terminals to automation units like PLC/DCS/SCADA. It is useful for detecting ground fault & line current-voltage sensing. The module has wide AC input and DC output ranges, to match various customer requirements.

It is available in compact footprints in 35mm DIN rail mounting. Its input and output connections are labeled for easy installation, operation and maintenance.

This module provides up to 1.5KVAC galvanic isolation between input, output and supply for rugged, stable and reliable operations. It has 24VDC auxiliary power supply. These modules are validated to be used even in harsh environment up to 50°C ambient temperature and 95% relative humidity (Non-Condensing).

Features

- Multi-channel configurations
- Wide range of AC inputs and DC outputs
- Isolates field signal from DCS/PLC
- DIN rail mounted
- User friendly labelling
- Independent zero & span for each channel
- Compact Size
- Easy to calibrate
- Re-Transmission to Interface with DAS/SCADA/PLC

Applications

- Industrial process control
- Factory automation
- SCADA
- DAS

TECHNICAL SPECIFICATIONS

| Input | | Power Supply | |
|-----------------------|--|--|----------------------------|
| No. of Channels | 8 | Power Supply | 18-36VDC |
| Input Range (Nominal) | | Power Consumption | 6 Watt |
| Current | 0-5A AC, 0-1A AC, 0-300mA AC | Fuse Rating | 2 Amp (Fast Blown) |
| Voltage | 0-150V AC, 0-300V AC, 0-450V AC | Healthy Status | Green LED |
| Burden | | Fault Status | Red LED |
| Current | < 0.1VA | Isolation (Withstanding voltage) | |
| Voltage | < 0.5 VA for 450VAC I/P | <ul style="list-style-type: none"> • Input to Output - 1.5KV RMS for one minute • Input to Supply - 1.5KV RMS for one minute • Output to Supply- 1.5KV RMS for one minute | |
| Overload current | 20A Max | | |
| I/P connection | Barrier Terminal 3 mm ² | | |
| Output | | Environmental | |
| Output Range | | Working temperature | 0 to 50 °C |
| Current | 4-20mA DC | Temp. Co-efficient | ≤ 150 PPM |
| Voltage | 0-5V DC, 0-10V DC, 1-5V DC | Relative humidity | 30-95% non-condensing |
| Response Time | Up to 90%: ≤ 200ms max Up to 99%: ≤ 400ms max | Protection | Conformal Coating on PCB |
| Accuracy | | Physical | |
| Current | 0.25% of FS (For 5-110% of nominal input) | Mounting Type | DIN Rail |
| Voltage | 0.25% of FS (For 10-110% of nominal input) | Dimensions | 300(W) x 126(H) X 91(D) mm |
| Stability | 0.1% per Year | Weight | 580gms |
| Output Terminals | 25 pin D-Type connector | | |
| Load Impedance | | | |
| Current | ≤ 650 Ohms | | |
| Voltage | ≥ 3.9K | | |

ORDERING CODE

MAS-DX-08-D-XX

| Input Signal | | Input Range | | Output Range | |
|--------------|---------|-------------|------------|--------------|-----------|
| X | | X | | X | |
| A | Current | 1 | 0-5A AC | 1 | 4-20mA DC |
| | | 2 | 0-1A AC | 2 | 0-5V DC |
| | | 3 | 0-300mA AC | 3 | 0-10V DC |
| | | | | 4 | 1-5V DC |
| V | Voltage | 1 | 0-150V AC | 1 | 4-20mA DC |
| | | 2 | 0-300V AC | 2 | 0-5V DC |
| | | 3 | 0-450V AC | 3 | 0-10V DC |
| | | | | 4 | 1-5V DC |