



## 9000U<sup>+</sup> Signal Isolator Single/Dual Output

Advanced. Isolated. Reliable

Masibus 9000U<sup>+</sup> Signal Isolator is slim yet rugged 4 wire Isolator used for reliable Isolation and Attenuation of Industry Standard Field Signals. 9000U<sup>+</sup> is available in Single or Dual output models.

9000U<sup>+</sup> has higher noise rejection ratio that ensures accurate and noise free signal conditioning. It's Slim DIN Rail mount design occupies less space and reduces cost of overall installation.

With Dual output option this model also acts as Signal distributor. A typical application could be where the signal has to be distributed for indication on local panel, field control room, main control room or DCS system. The Isolator provides a good protection for sensitive system parts against voltage spikes etc.

Model 9000U<sup>+</sup> has built-in transmitter power supply (TPS) to drive field transmitters delivering 4-20mA DC outputs signal. An exceptional feature of advanced extended universal power supply for the range of 20V to 265V DC or AC makes 9000U<sup>+</sup> suitable for most of the power supply range available in field thus providing easy installation.

Masibus' 9000U<sup>+</sup> Model offers an excellent accuracy and stability for reliable operation in hostile environments and full isolation safely separates input channel, each output channel and the power supply.

### Features

- Slim Design of 35mm for Single and Dual output
- Rugged & accurate 4 wire isolator
- Compact DIN rail mounting
- Extended Universal Power Supply Range: 20V to 265V DC or AC
- 2.0KVAC Three Port Isolation
- Up to 2 outputs with Short Circuit Protection
- "Active Output" LED indication for current outputs
- High CMRR and NMRR
- High output Load Driving Capability
- Wide zero & span adjustment limits
- Front calibration facility via Mutilturn Trimptot

### Applications

- Field Interface device
- Isolation of field signals
- Distribution of signals
- Translation of signals
- Factory automation
- SCADA
- DCS
- Impedance matching of transmitters and receiver instruments
- Powering of Field Transmitters

# TECHNICAL SPECIFICATIONS

Input		Power Supply	
Input type	Current	Voltage	20 to 265VDC/AC, 45Hz-65Hz
Input Range	4 to 20mA	Power Consumption	Less than 5VA
Input Impedance	≤10 Ω	Power ON status LED	RED
Temperature Coefficient	≤100 ppm/ °C	<b>Isolation (Withstanding voltage)</b>	
CMRR	> 100 dB	Between primary terminals* and secondary terminals**: <b>At least 2.0 KV AC for 1 minute</b>	
NMRR	> 70 dB	Between primary terminals* and grounding terminal: <b>At least 2.0 KV AC for 1 minute</b>	
Output		Between grounding terminal and secondary terminals**: <b>At least 2.0 KV AC for 1 minute</b>	
Output Type	Current	Between secondary terminals**: <b>At least 2.0 KV AC for 1 minute</b>	
Output Range	4 to 20mA	* Primary terminals indicate power terminals.	
Response time	≤ 50ms	** Secondary terminals indicate I/O terminals.	
Accuracy	± 0.1% of FS	<b>Insulation resistance:</b> > 200MΩ@1000 V DC between All terminals and grounding terminal.	
Output Load Capacity	≤ 750 Ω		
Output ON status LED	GREEN		
<b>Physical</b>			
Mounting Type		DIN RAIL (35 mm) Mounting	
Terminal Block		UL,CSA standard	
Terminal Cable Size		2.5mm <sup>2</sup>	
Enclosure Material		ABS	
IP Rating		IP20	
Dimension		75(H)x35.1(W)x107.25(D)	
Weight		SOP model : 120 gms Approx DOP model : 150 gms Approx	
<b>Environmental</b>			
Operating Temperature		0 to 55 °C	
Relative Humidity		30 to 95% RH (Non-Condensing)	
Protection		Conformal Coating on PCB	

## Ordering Code

Model	Input Type		No of O/P		O/P type
9000U*	S	X	X	X	
		C	1	1	4-20mA
			2		